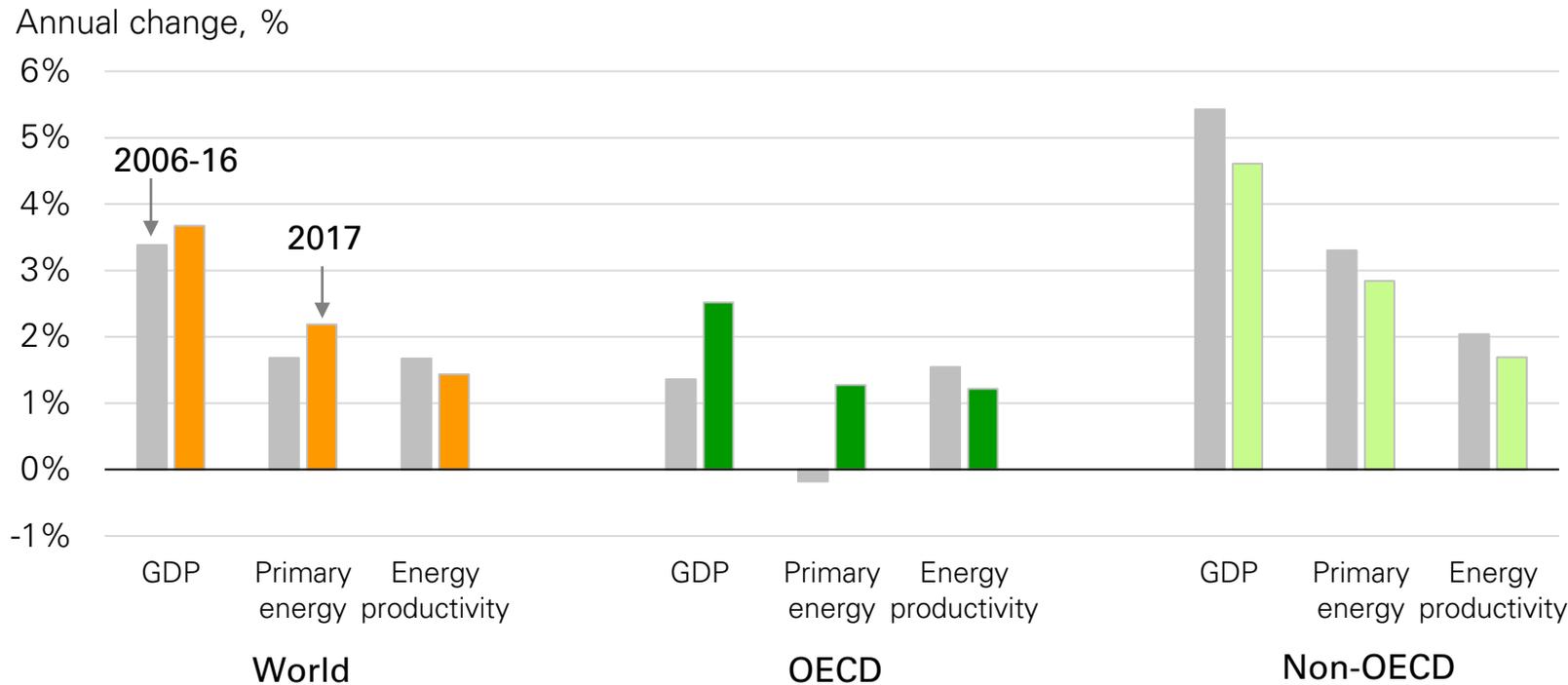
A large, stylized graphic of the letter 'R' in a bold, sans-serif font. The 'R' is filled with a satellite-style map of the world, showing continents in green and yellow and oceans in blue. The 'R' is positioned in the center of the slide, with the text 'June 2018 | BP Statistical Review of World Energy' overlaid on its left side.

June 2018 | BP Statistical Review
of World Energy

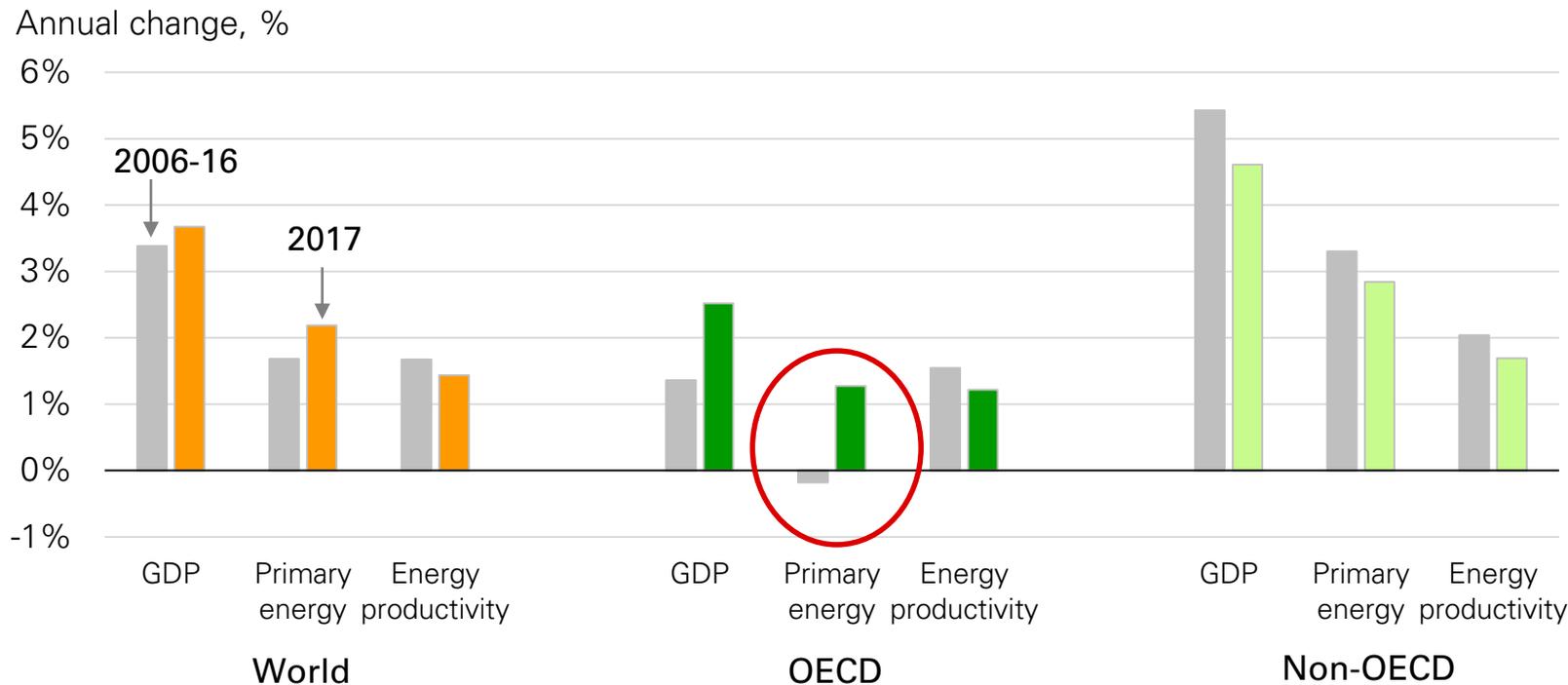
Energy in 2017: two steps forward, one step back

Mark Finley

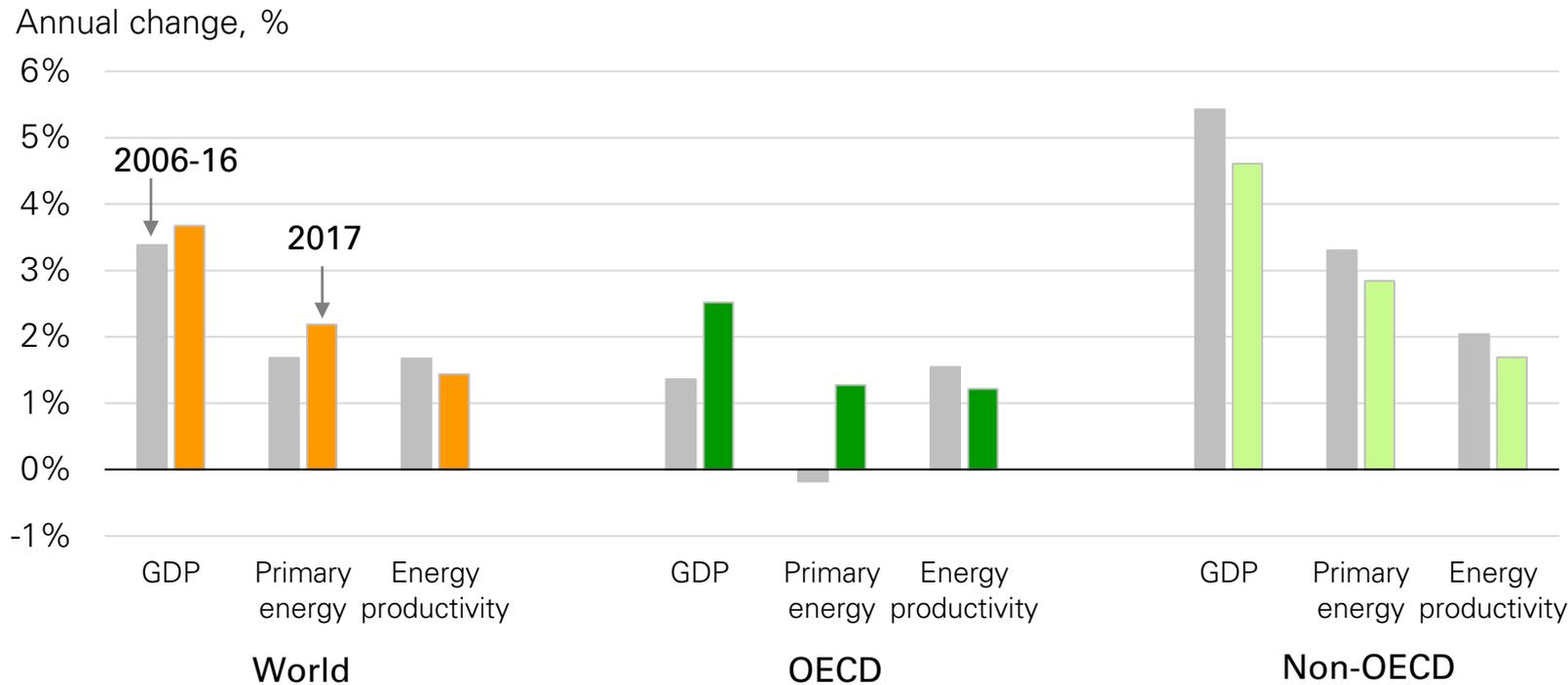
Growth in GDP and energy



Growth in GDP and energy



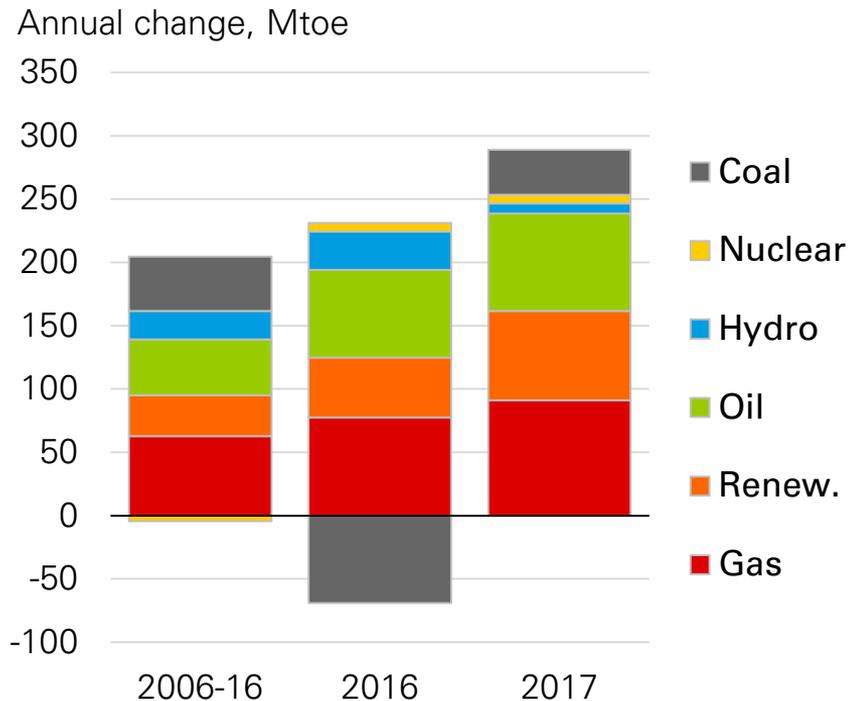
Growth in GDP and energy



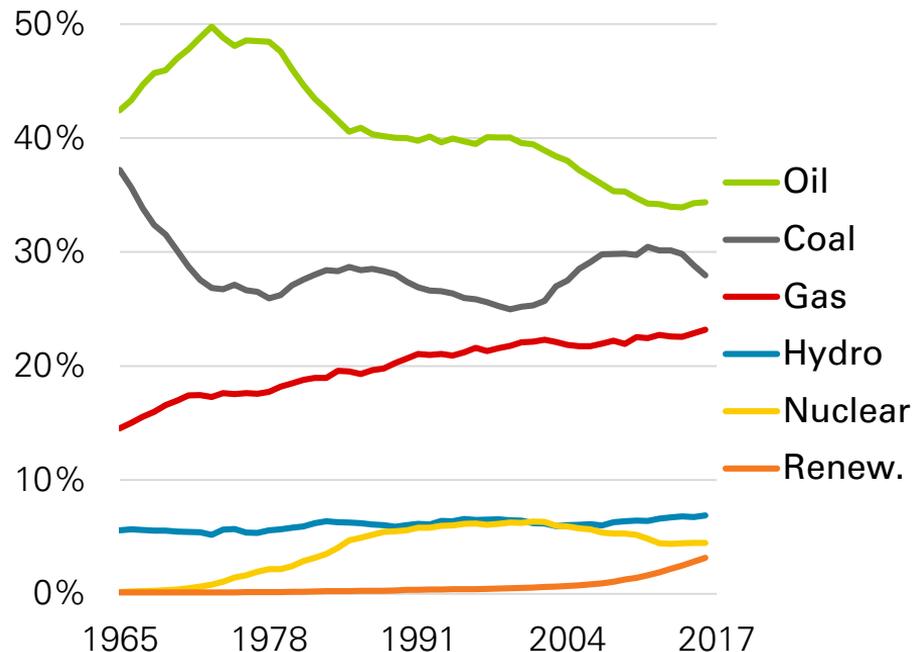
Primary energy fuel mix



Consumption growth by fuel



Shares of primary energy consumption



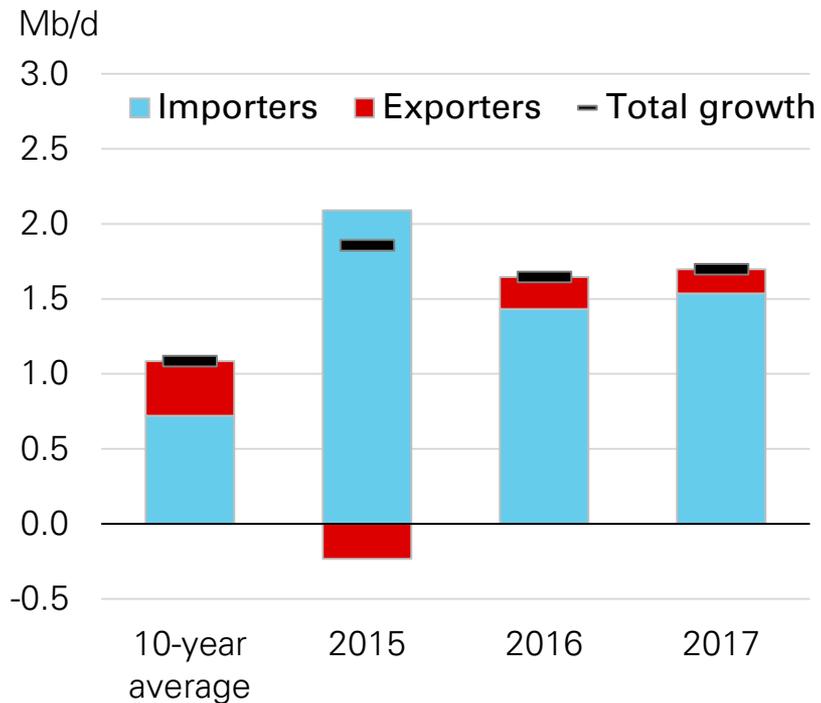
Note: Oil includes biofuels



Oil

Oil demand growth

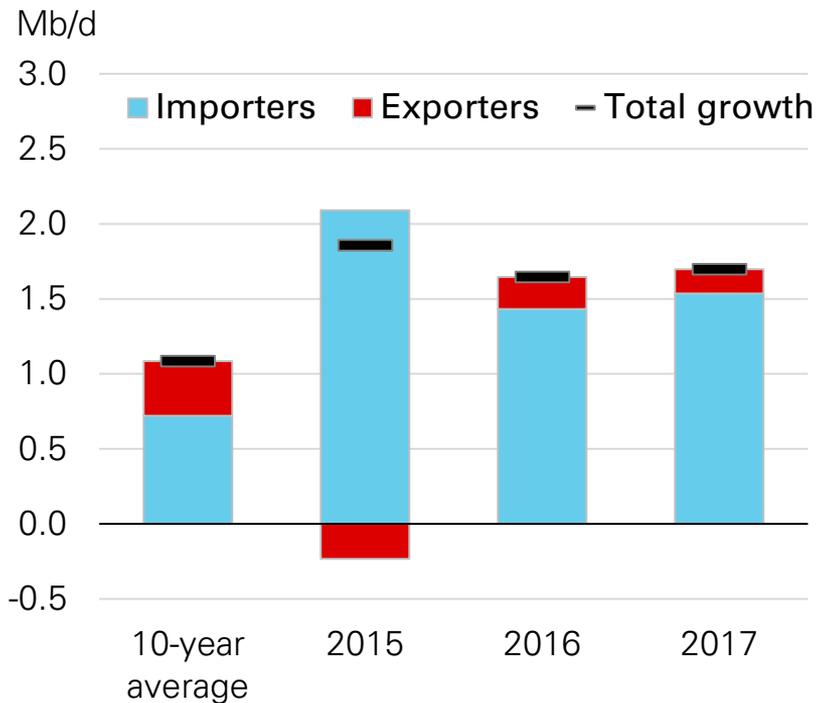
Growth by importers and exporters



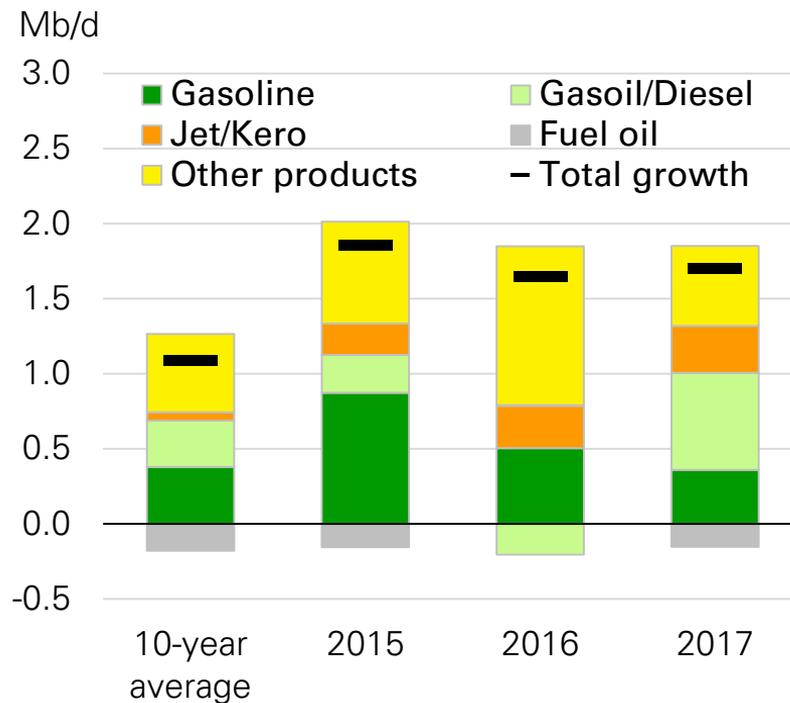
Oil demand growth



Growth by importers and exporters



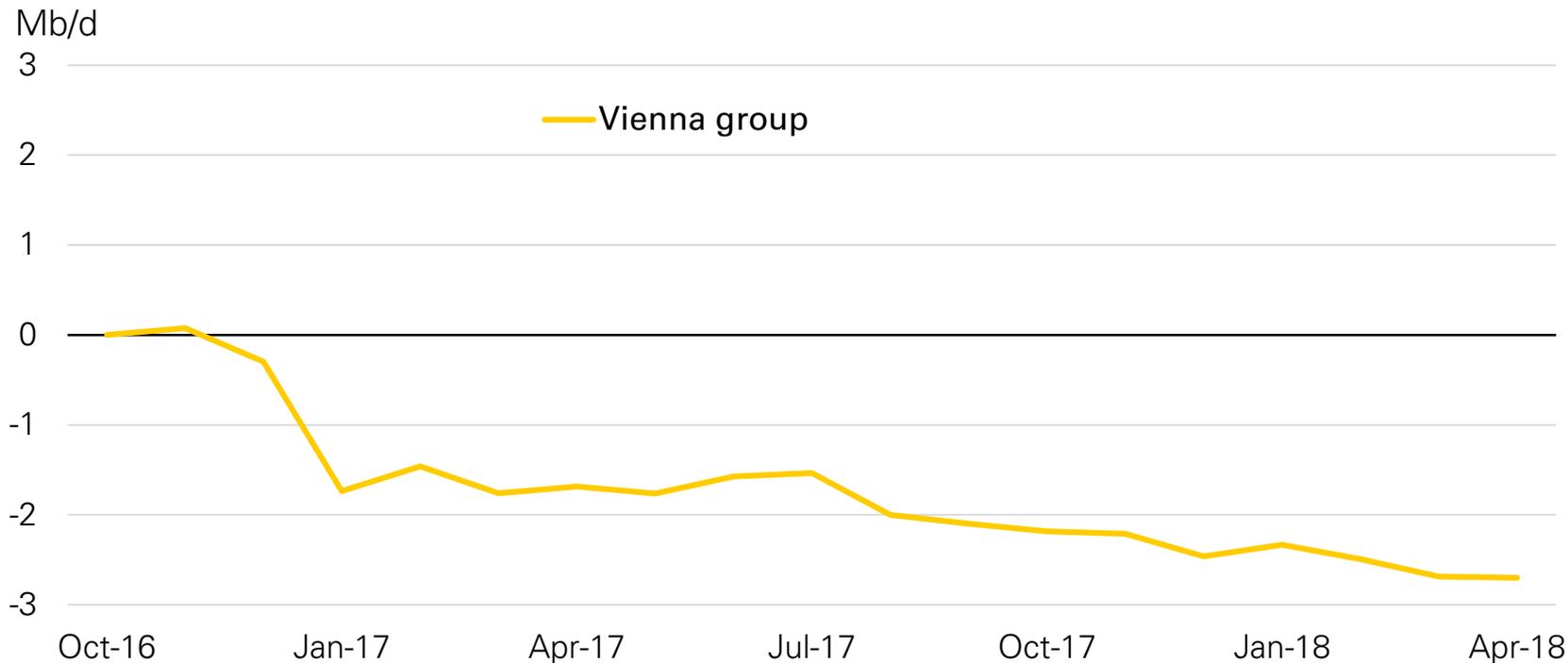
Growth by product



Production cuts versus tight oil increases



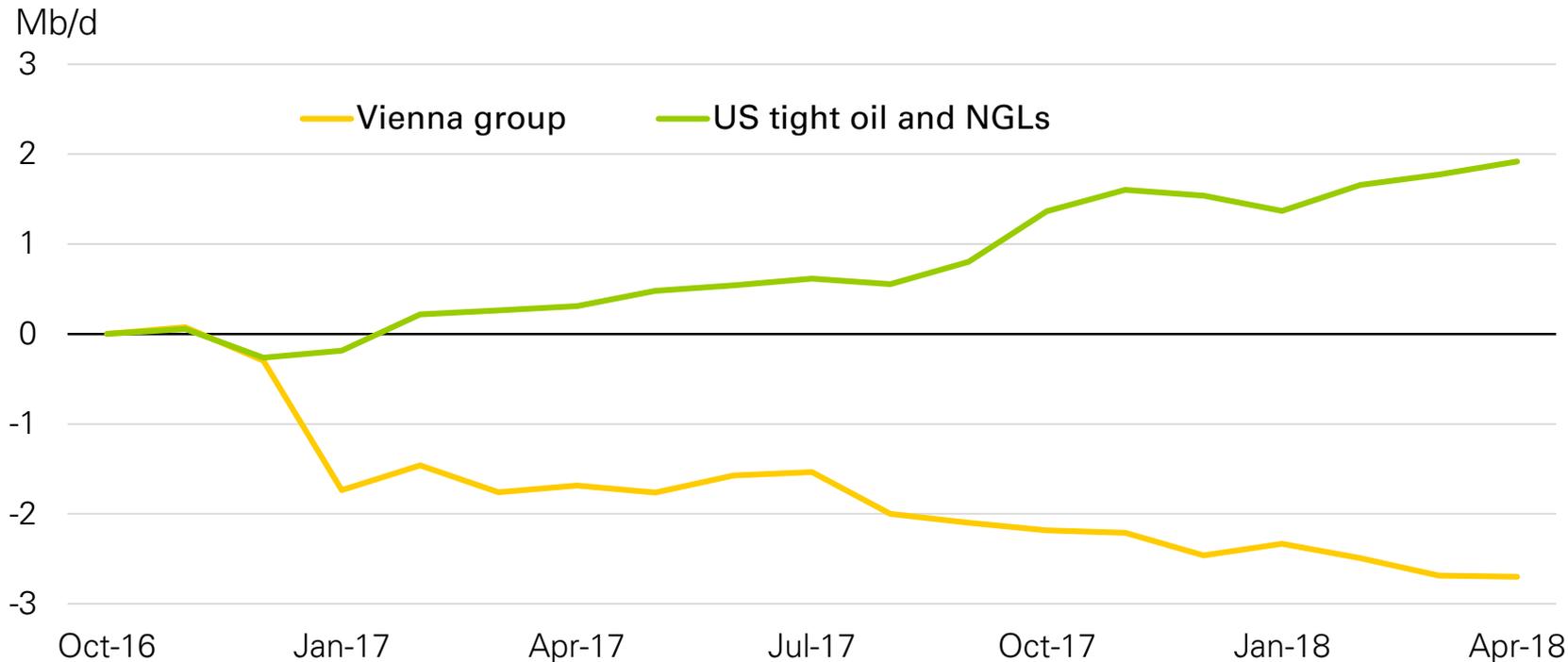
Change in supply relative to October 2016



Production cuts versus tight oil increases



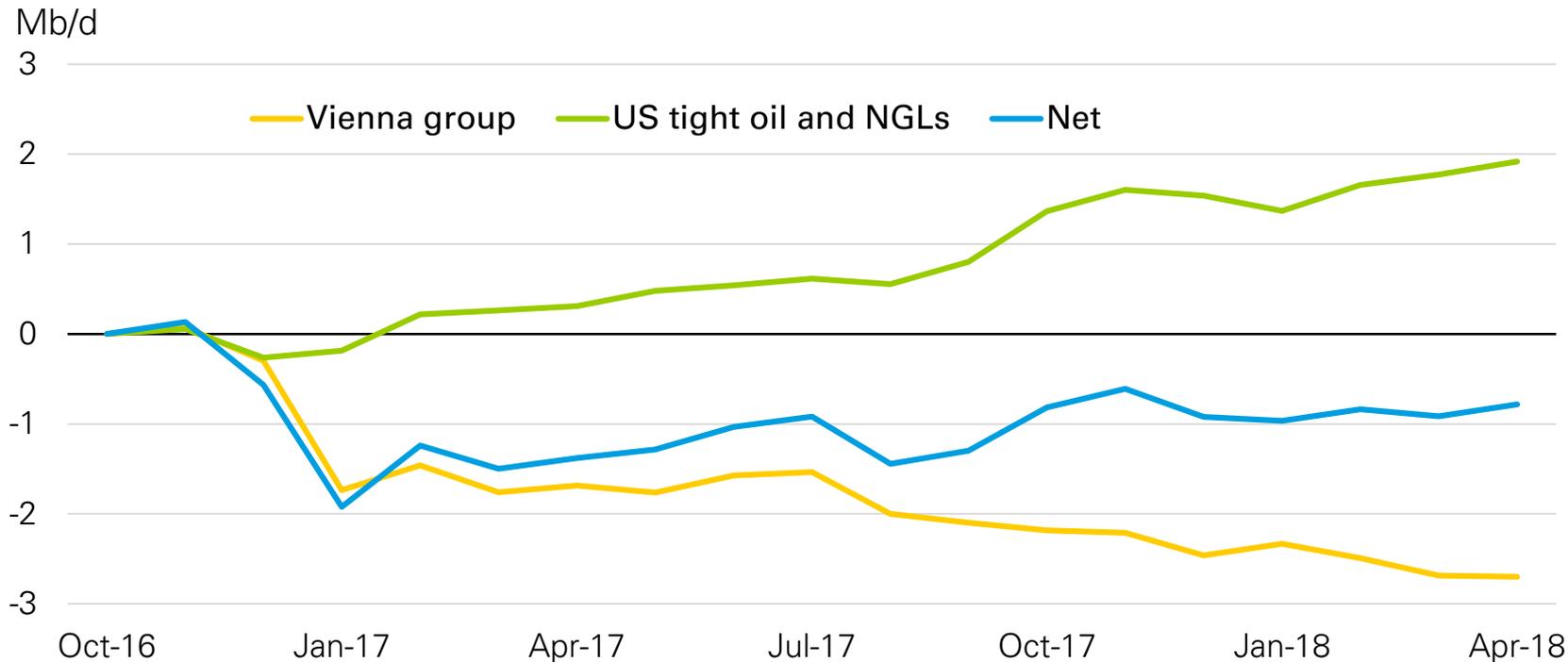
Change in supply relative to October 2016



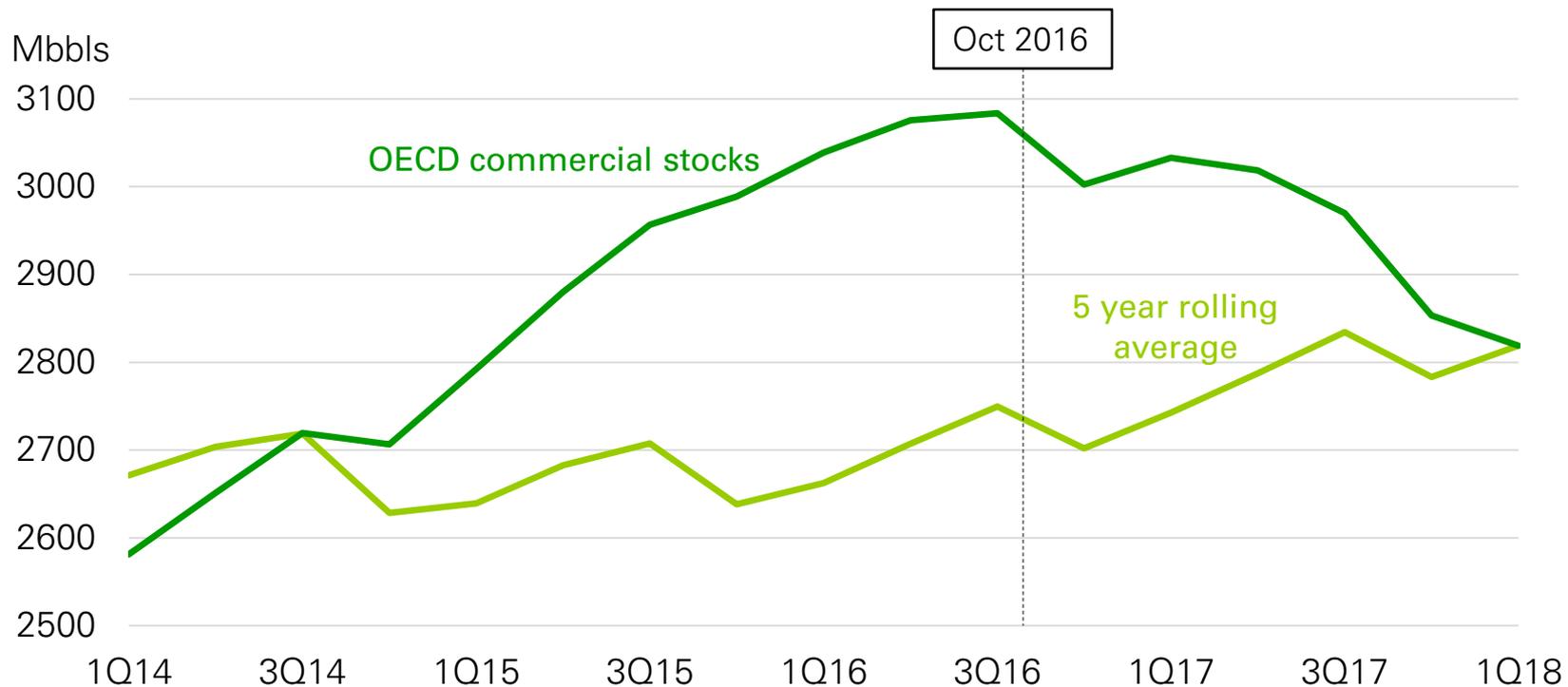
Production cuts versus tight oil increases



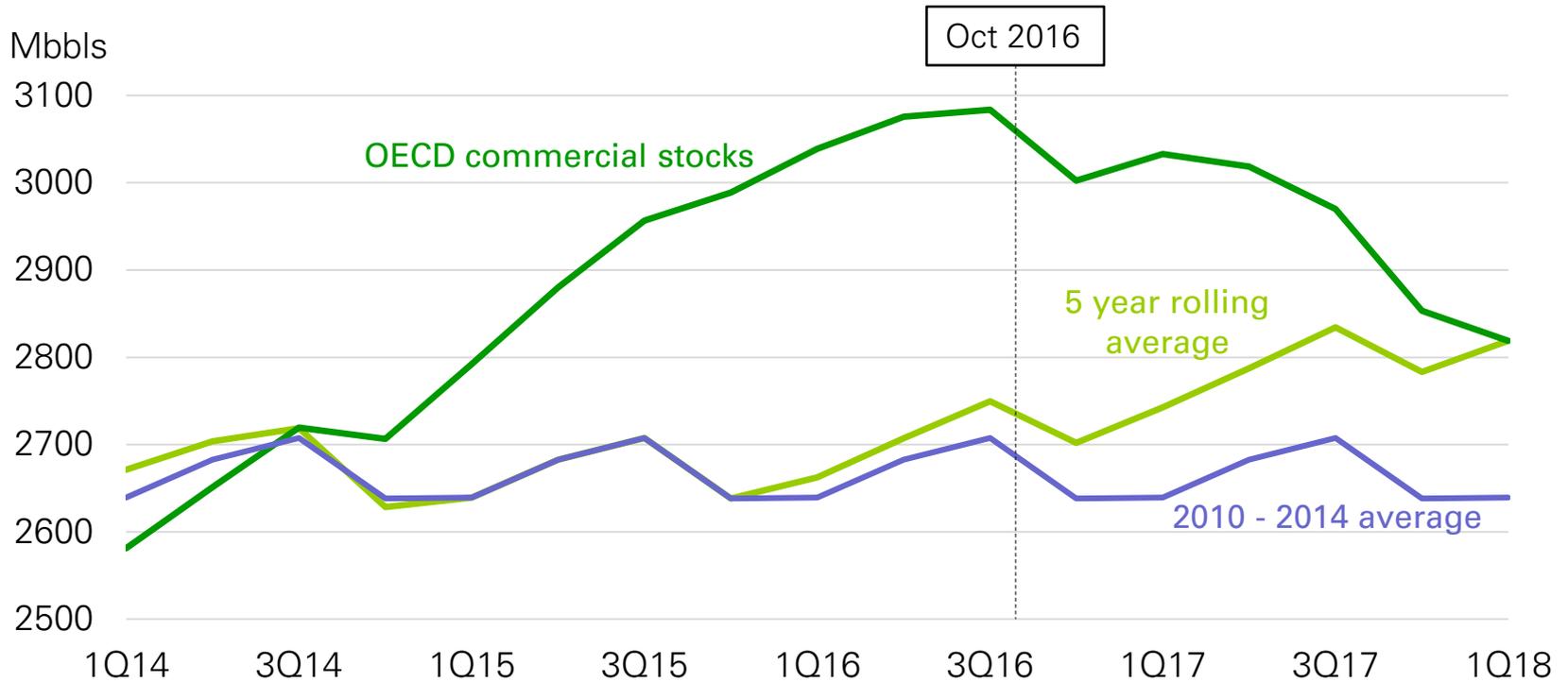
Change in supply relative to October 2016



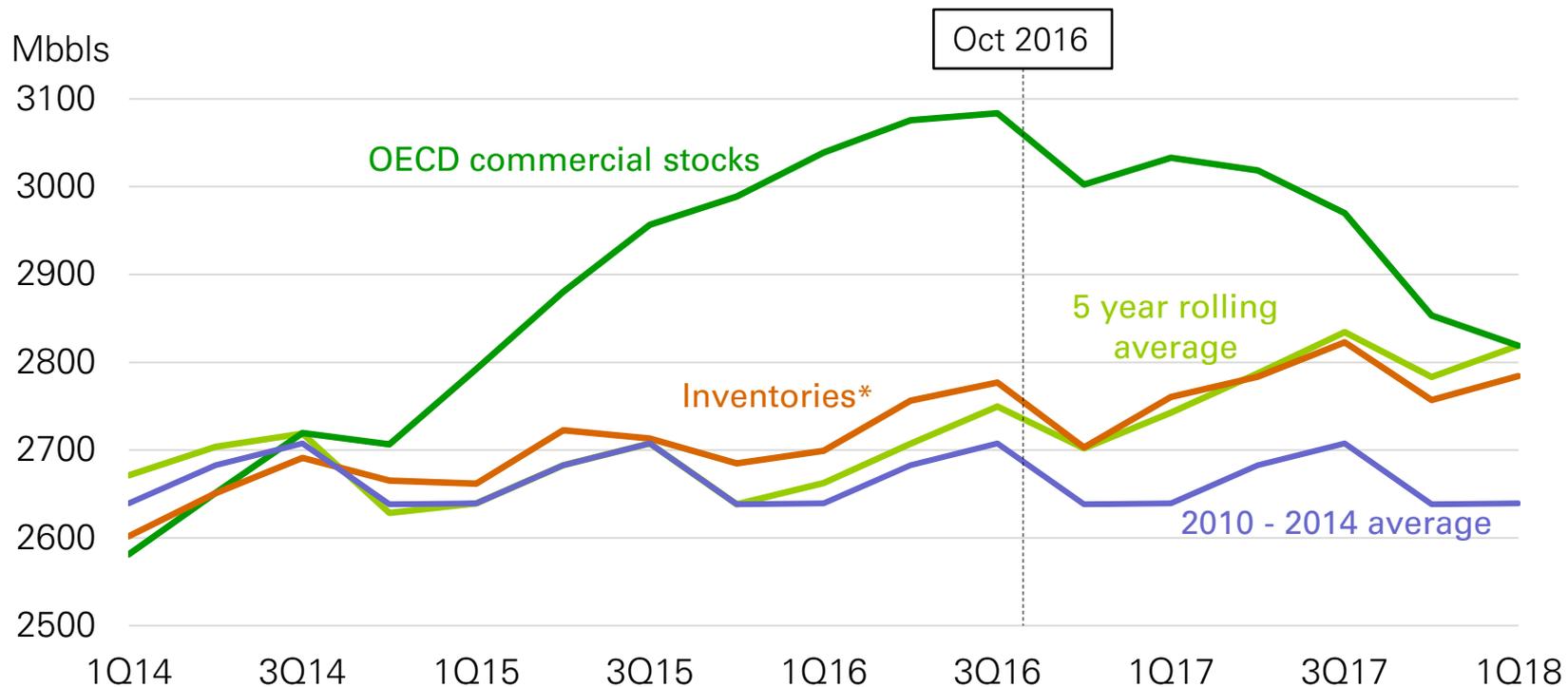
OECD oil inventories



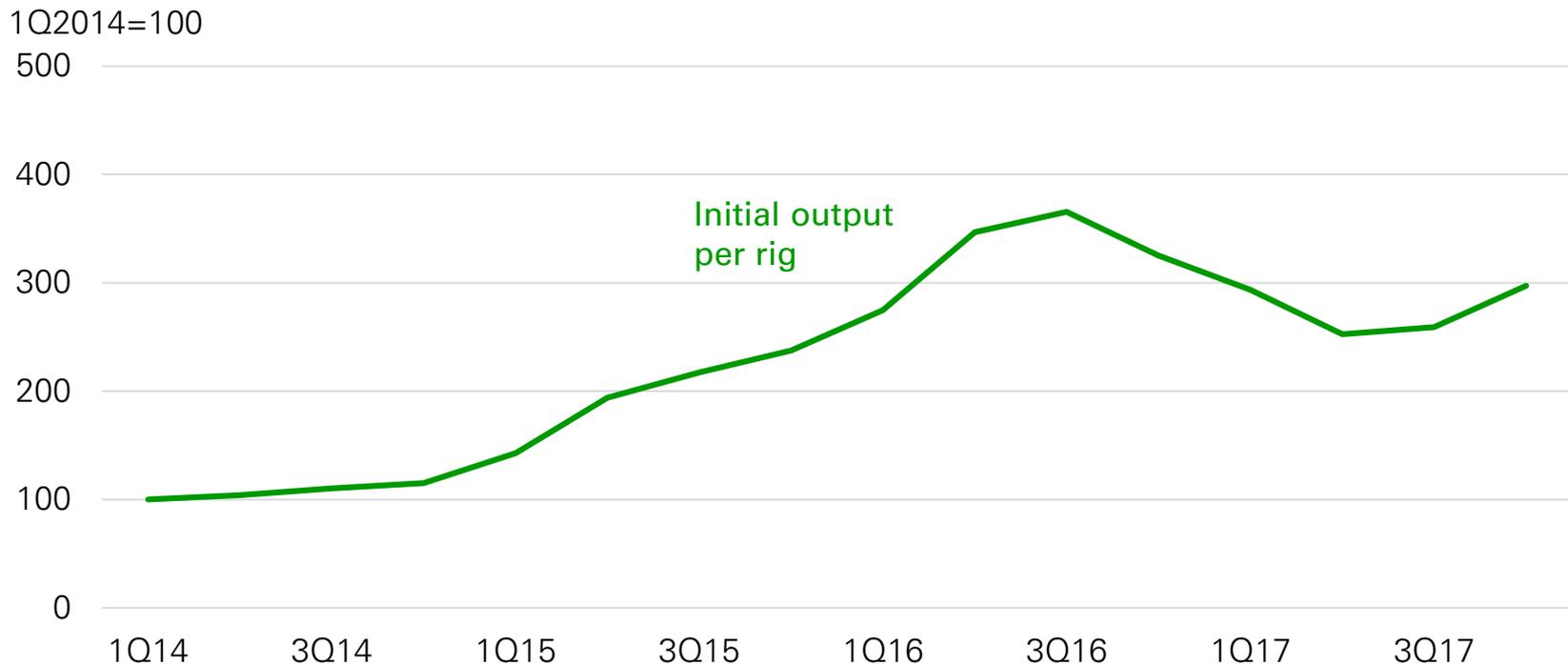
OECD oil inventories



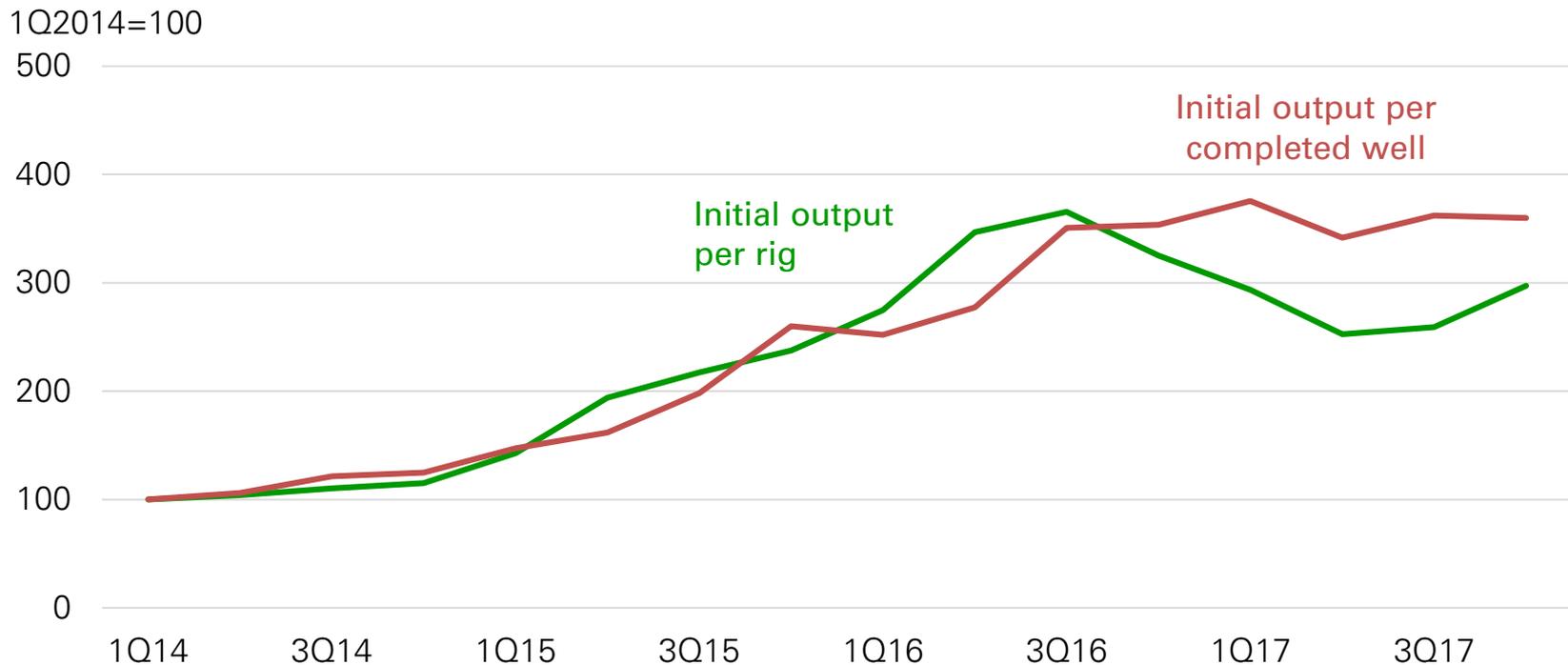
OECD oil inventories



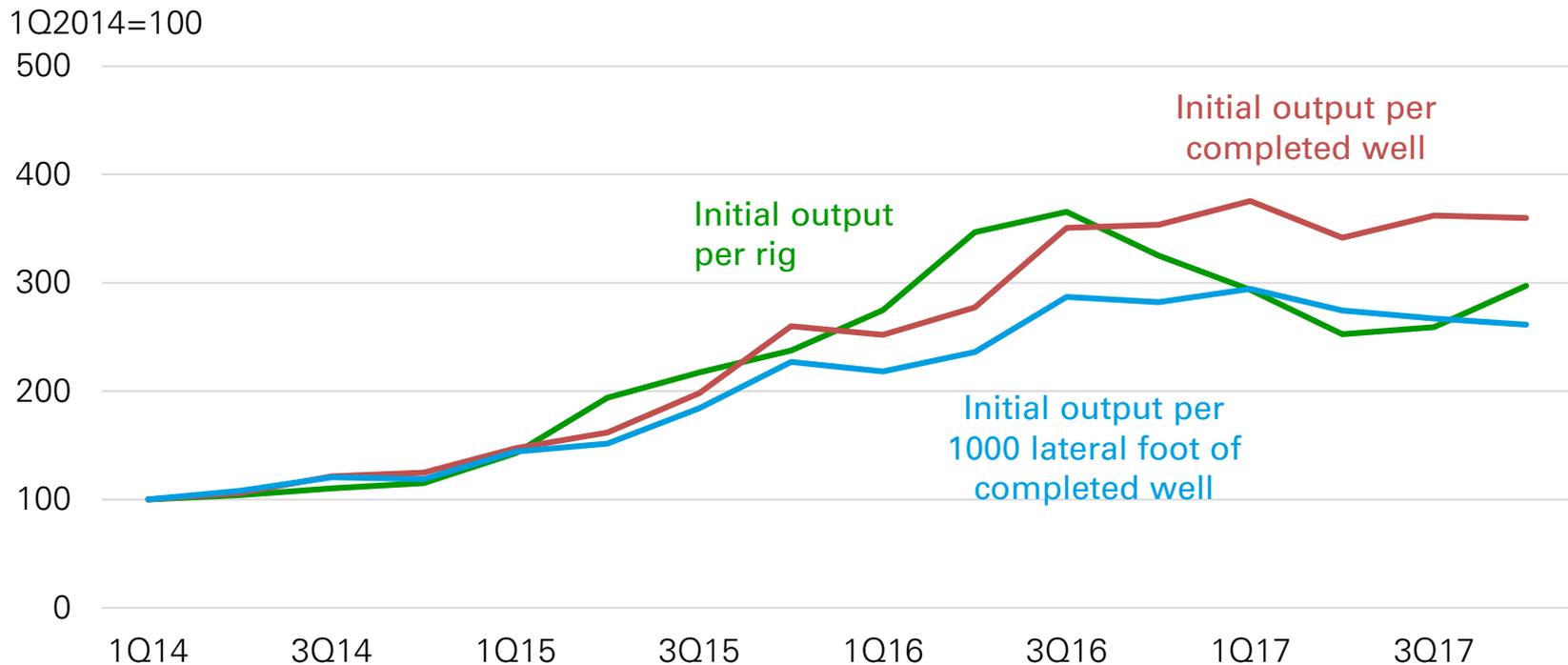
Permian productivity



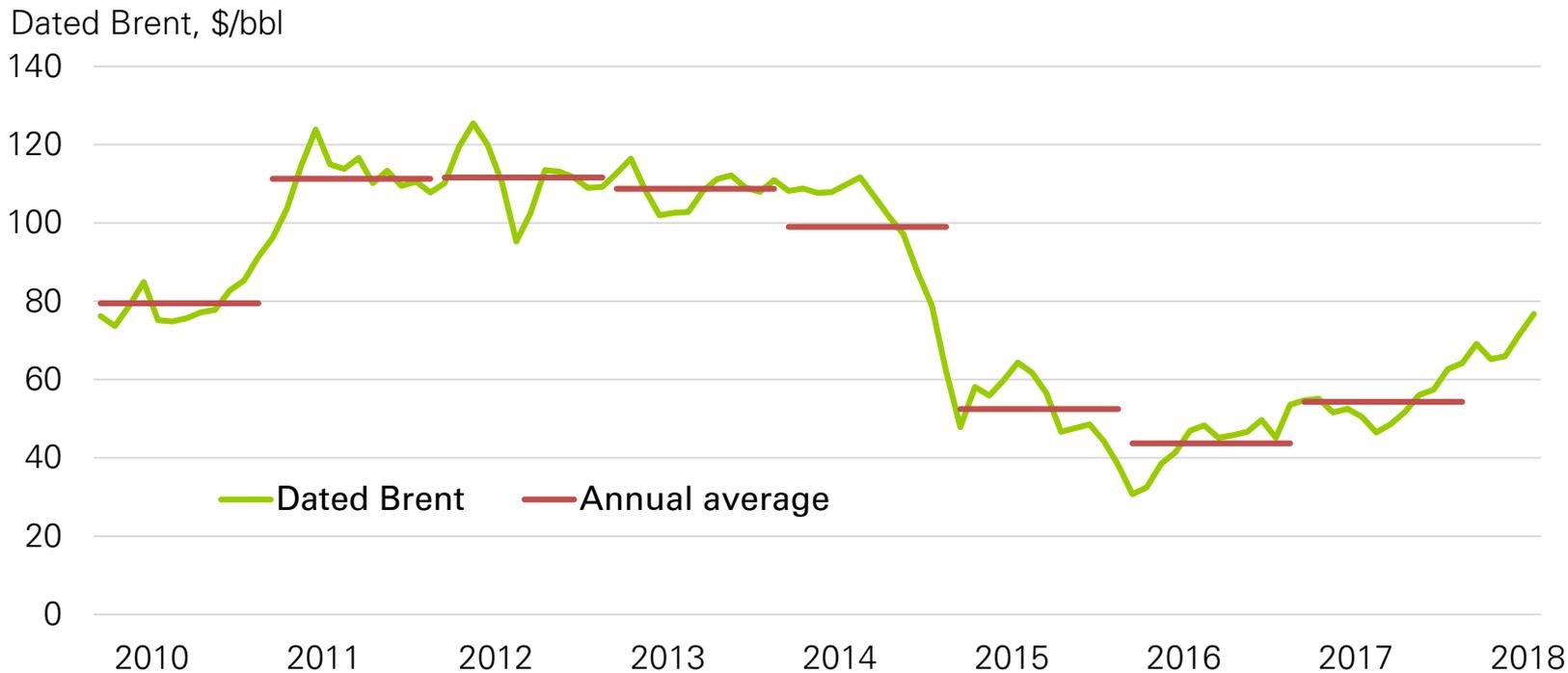
Permian productivity



Permian productivity



Oil price





Natural Gas

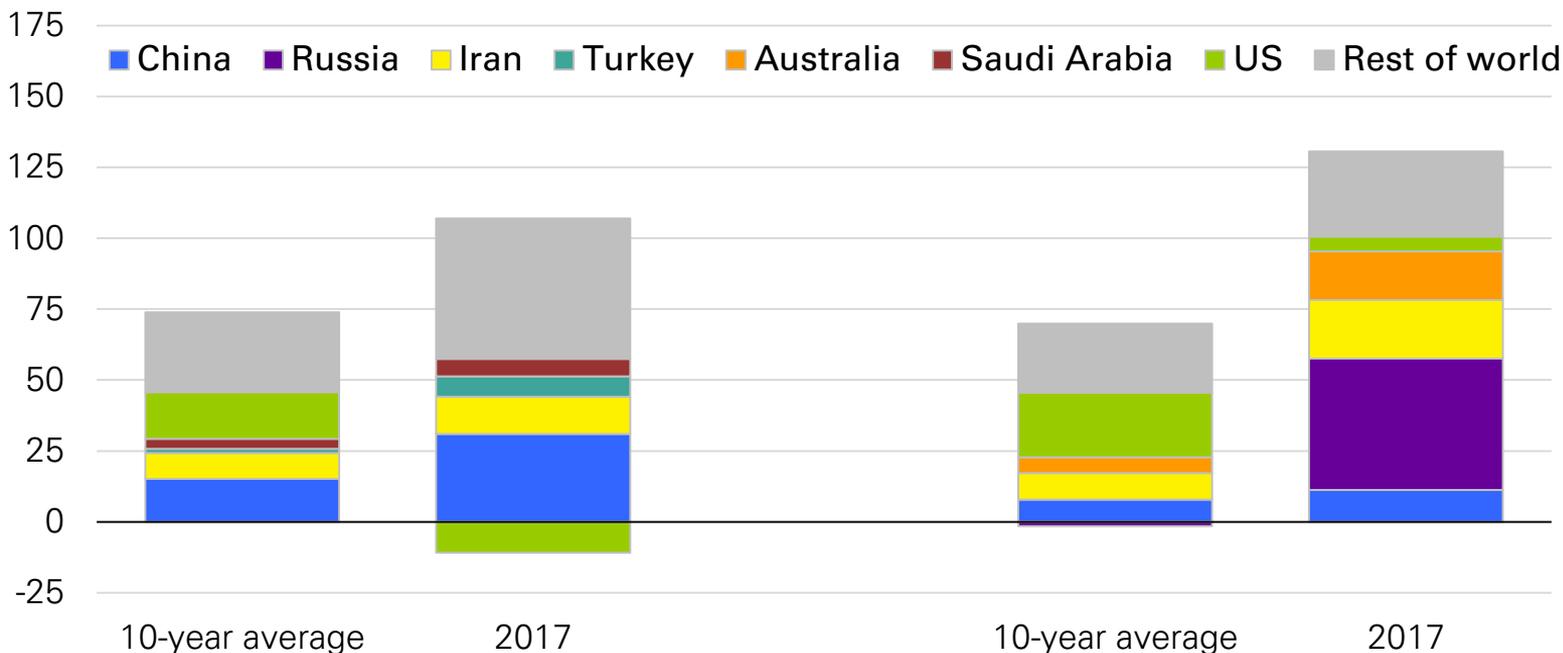
Natural gas consumption and production



Consumption

Production

Annual change, bcm

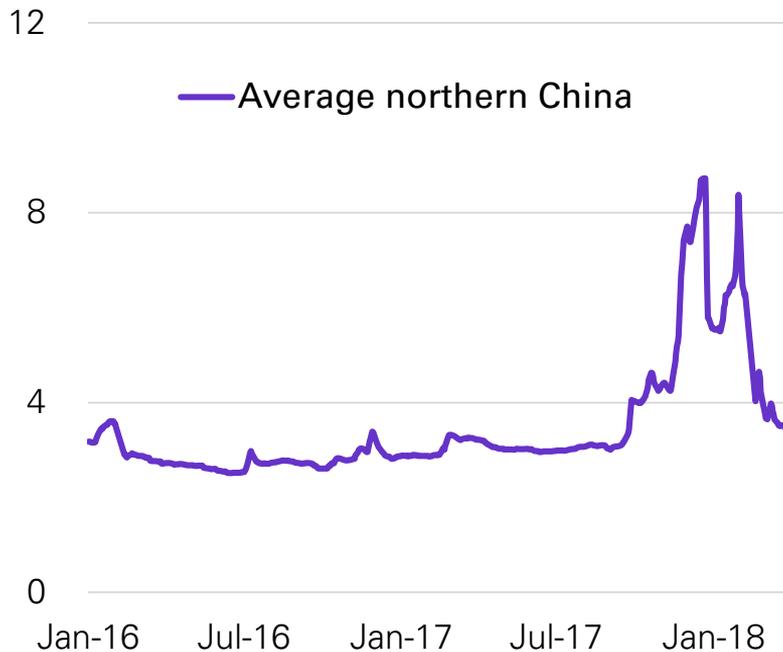




Impact of Chinese gas surge

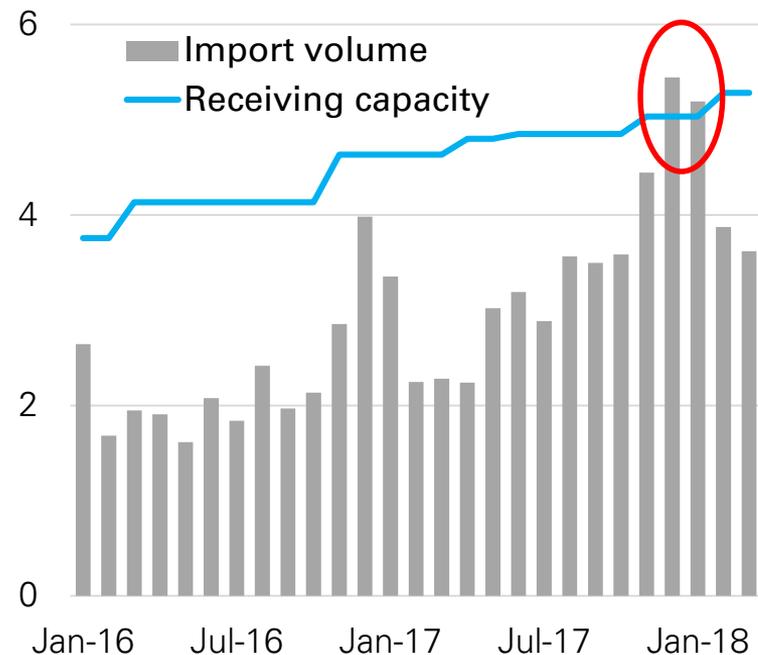
China wholesale LNG prices

Thousand RMB/tonne



China LNG imports and receiving capacity

Million tonnes

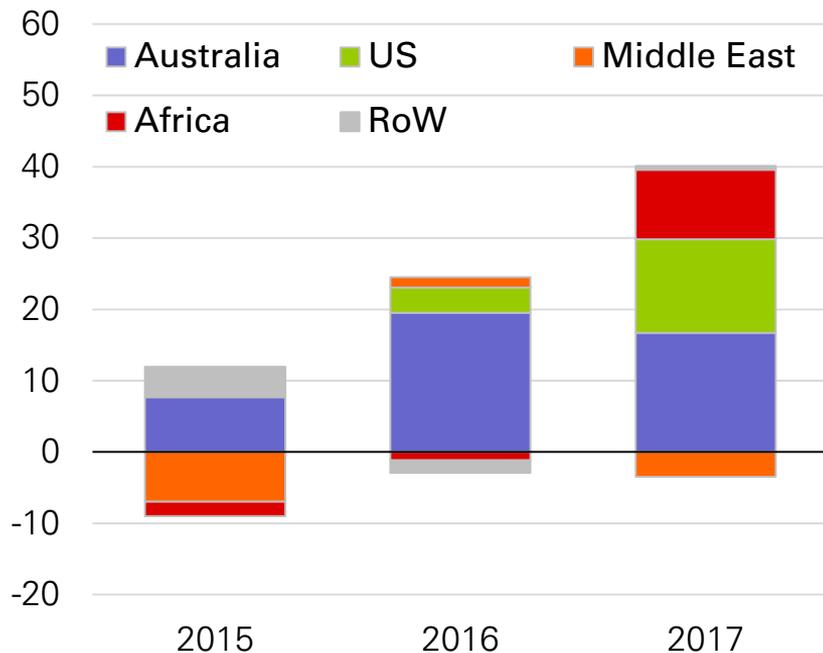


LNG exports and imports



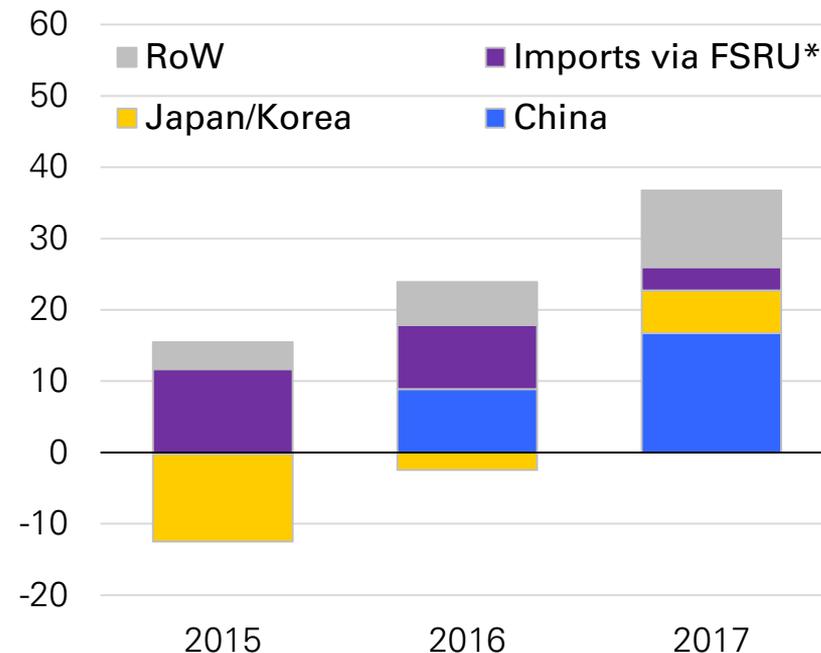
LNG exports

Annual change, bcm



LNG imports

Annual change, bcm

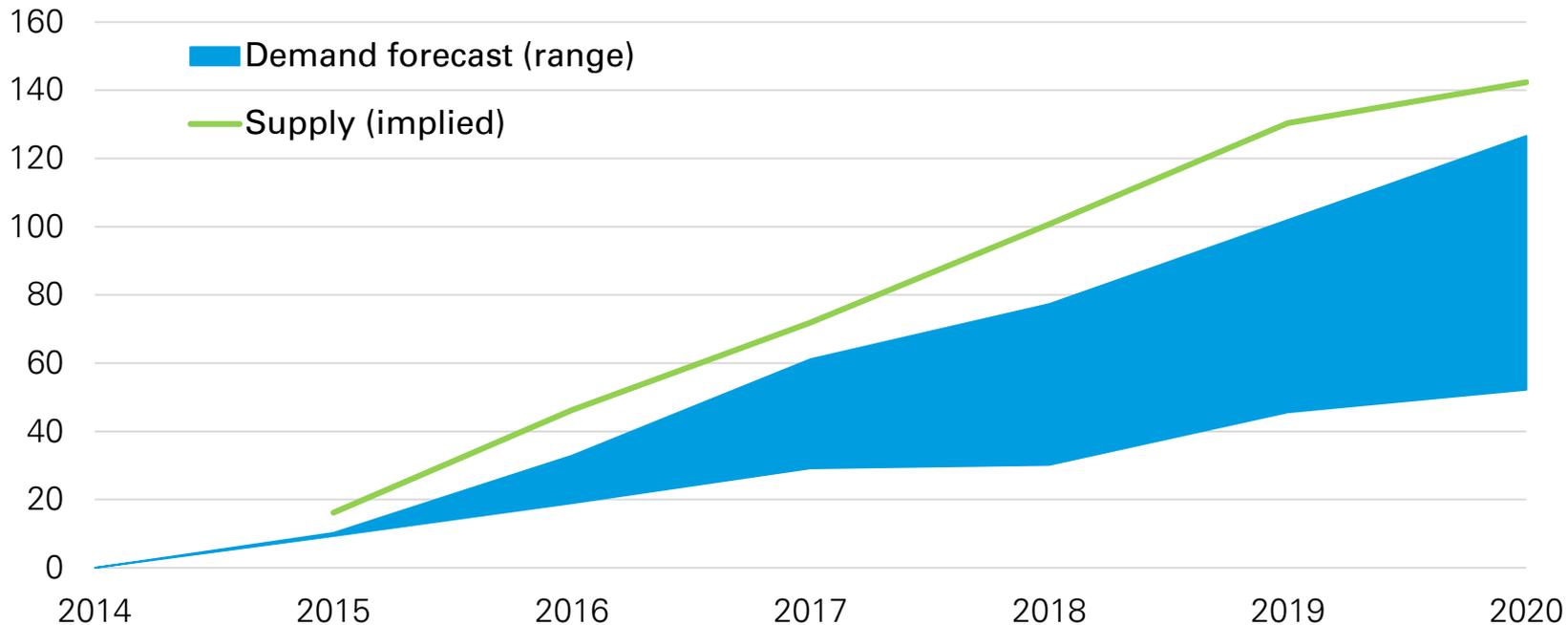


*Floating storage and regasification units
RoW: Rest of world

LNG glut?



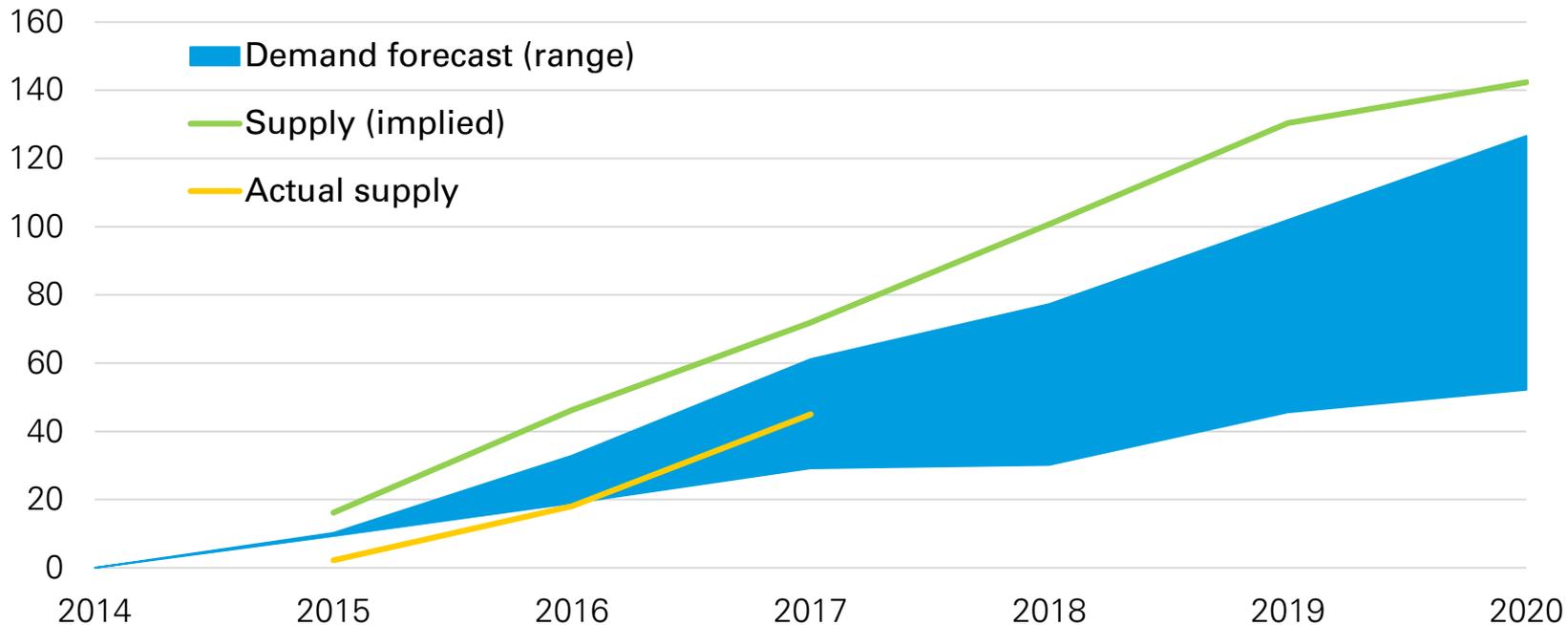
Additional demand/supply from 2014 (million tonnes)



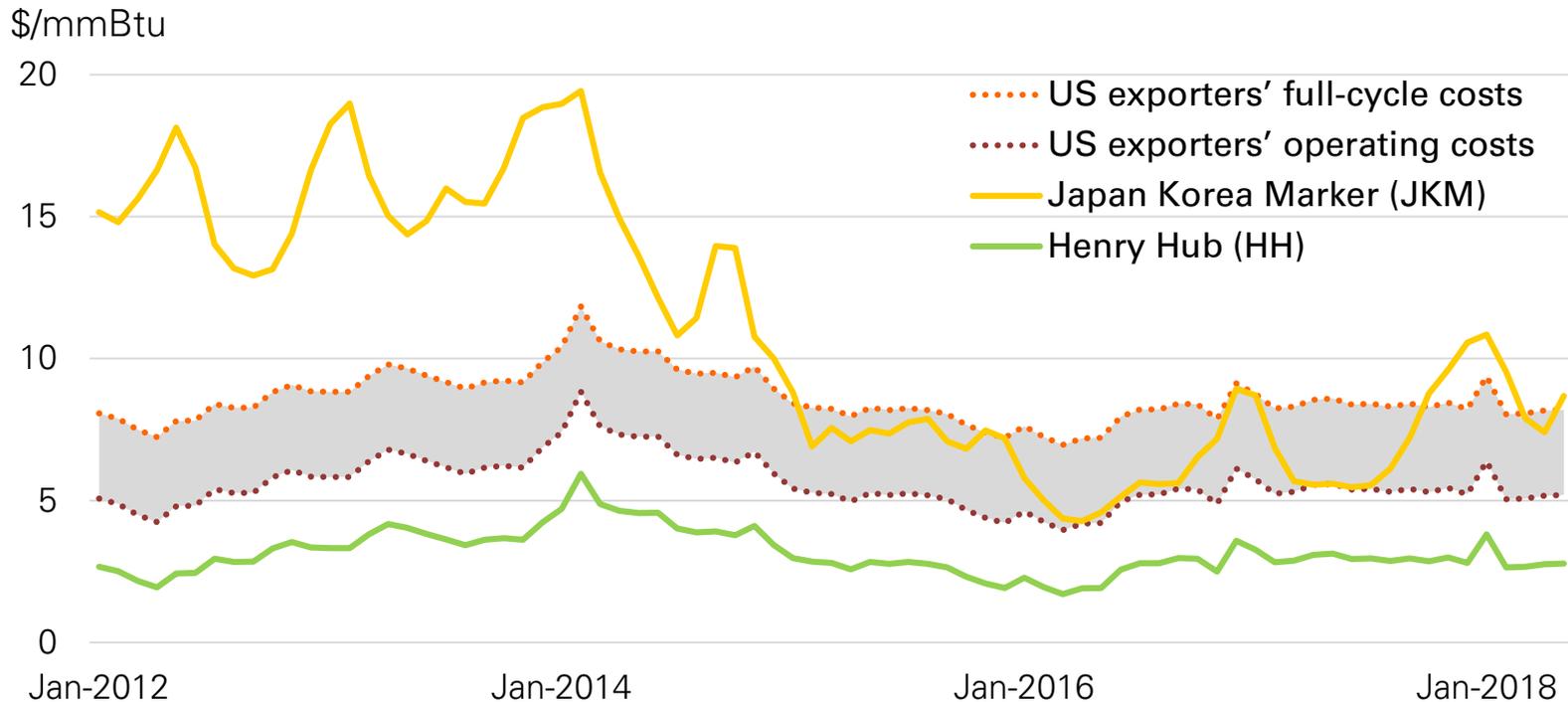
LNG glut?



Additional demand/supply from 2014 (million tonnes)



US LNG exporters' costs and Asian spot prices



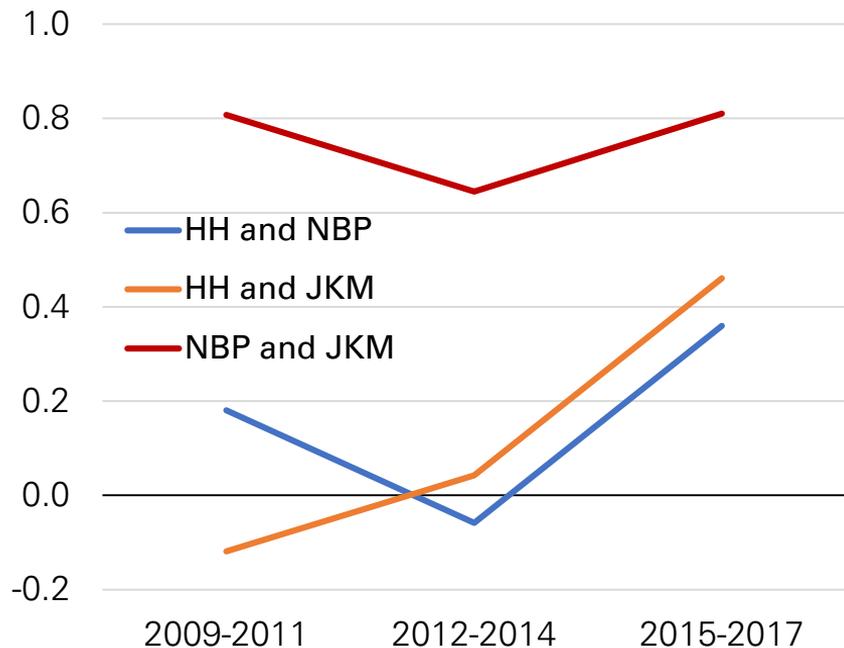
* Operating costs = 115* Henry Hub + \$2/mmBtu (transport) ; Full costs also include liquefaction fee (\$3/mmBtu)

BP Statistical Review of World Energy

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Gas price correlation and volatility

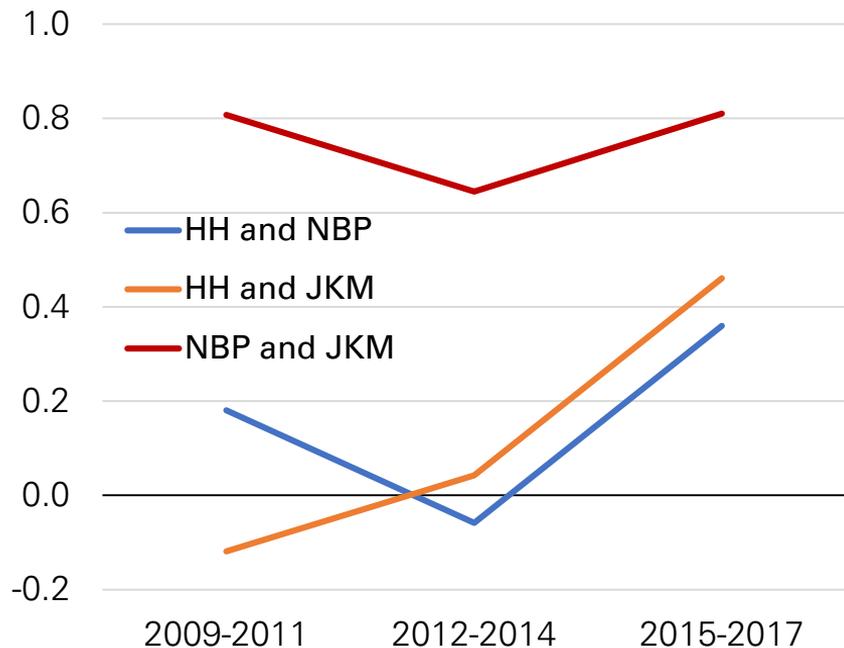
Gas price correlation





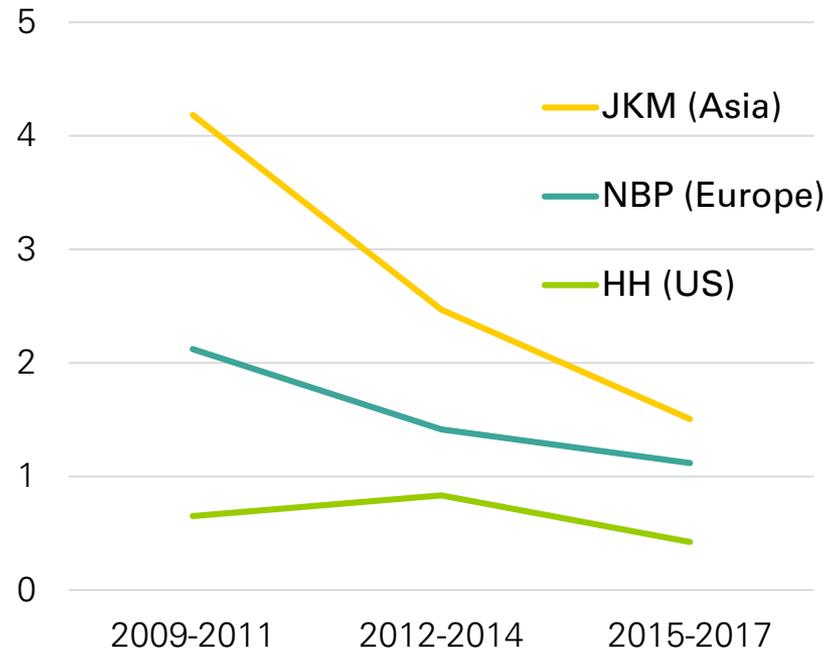
Gas price correlation and volatility

Gas price correlation



Gas price volatility

Standard deviation (\$/mmBtu)



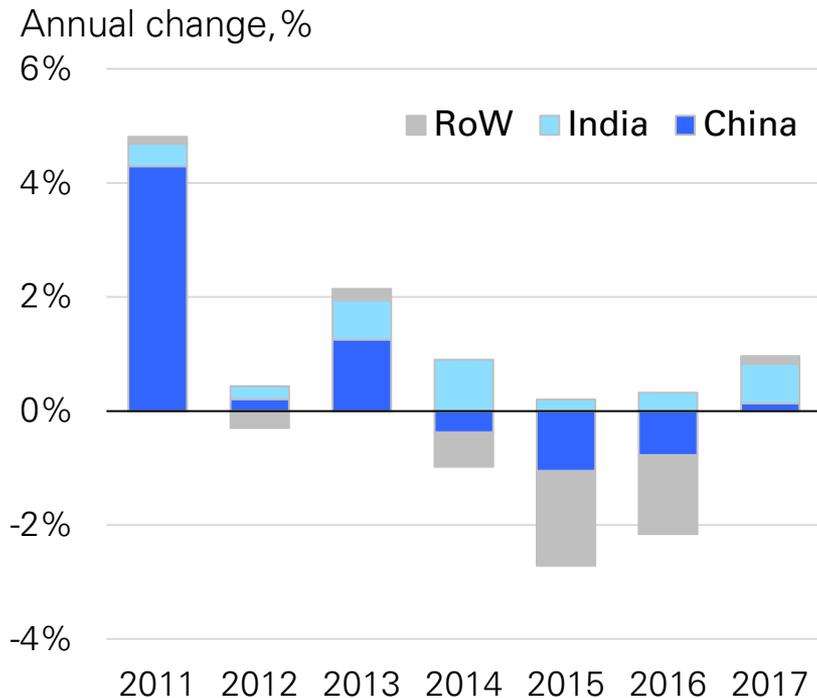


Coal

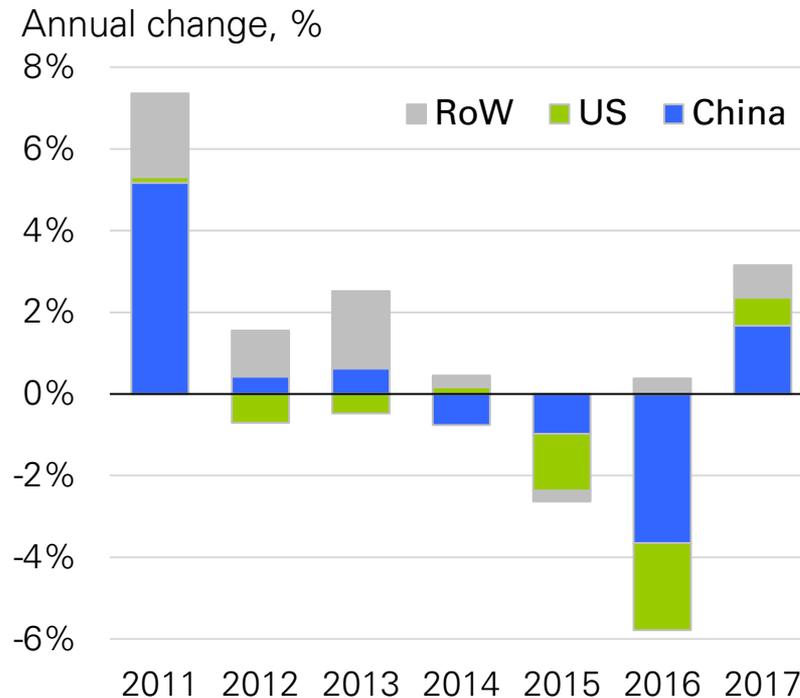
Global coal consumption and production



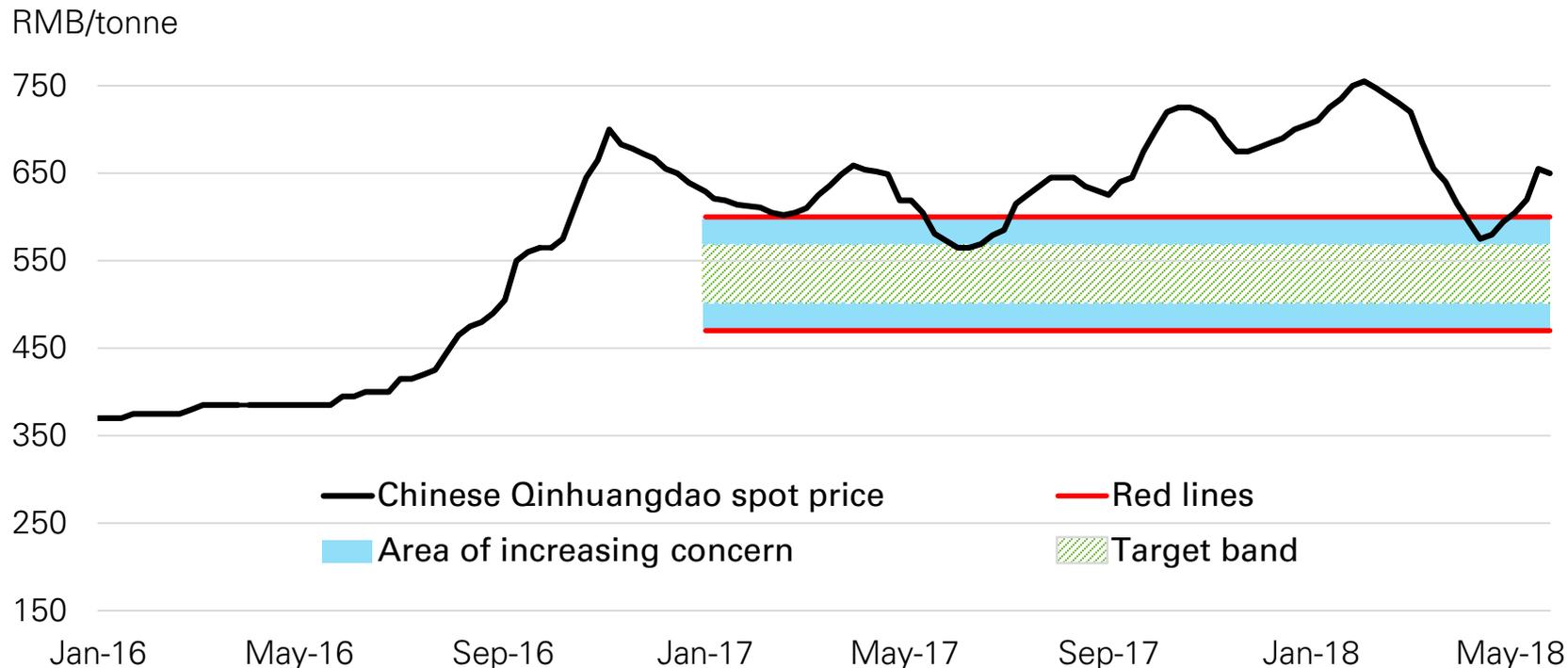
Consumption growth and regional contributions



Production growth and regional contributions



Chinese coal prices



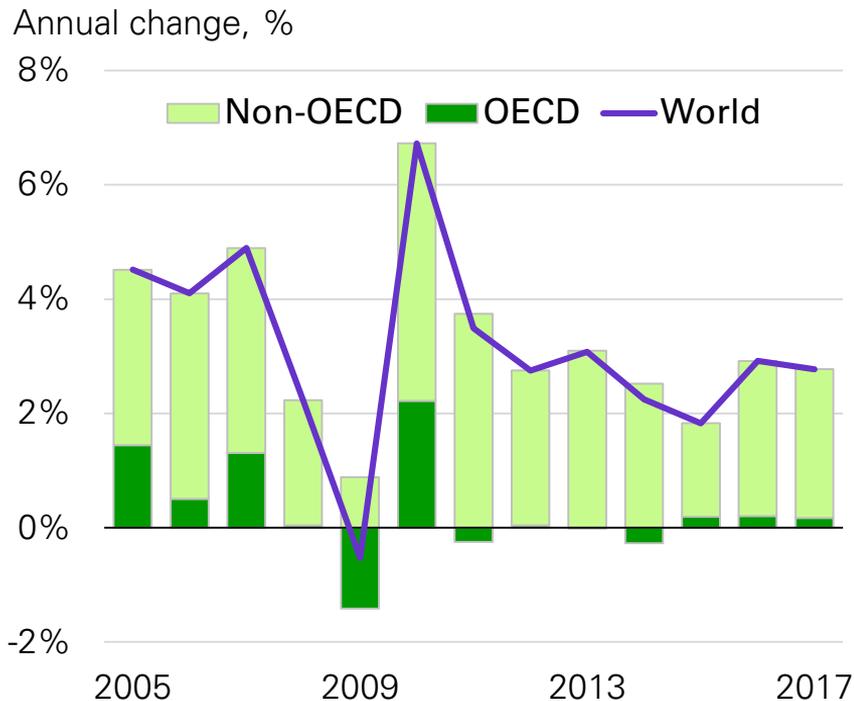


Power

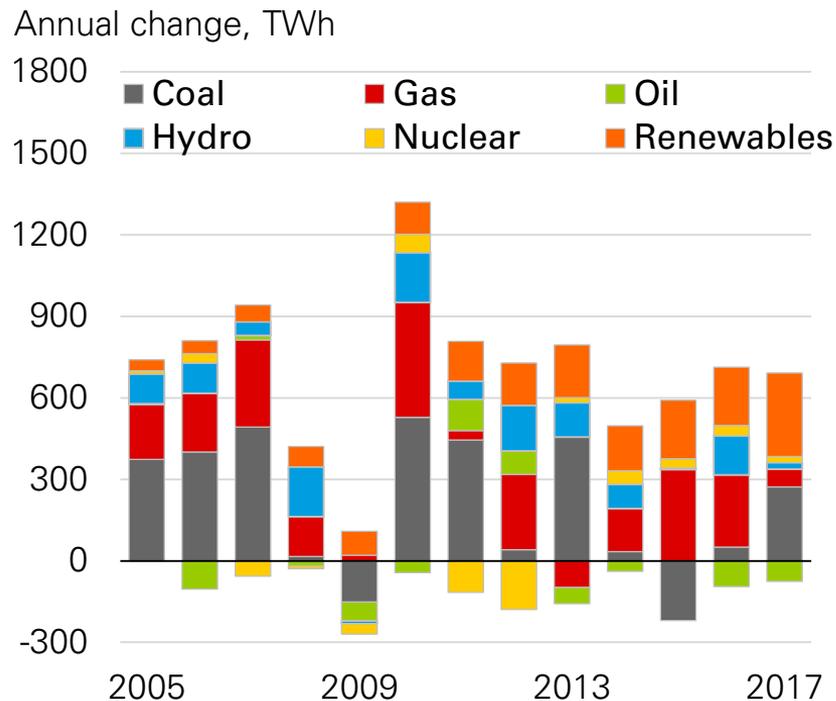
Growth in power generation



By region



By fuel

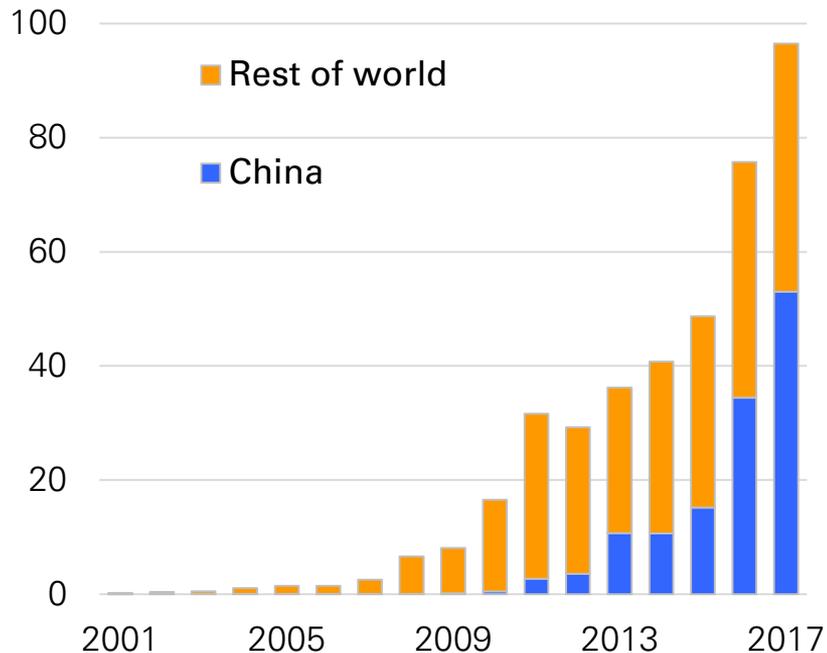


Growth in solar capacity and generation



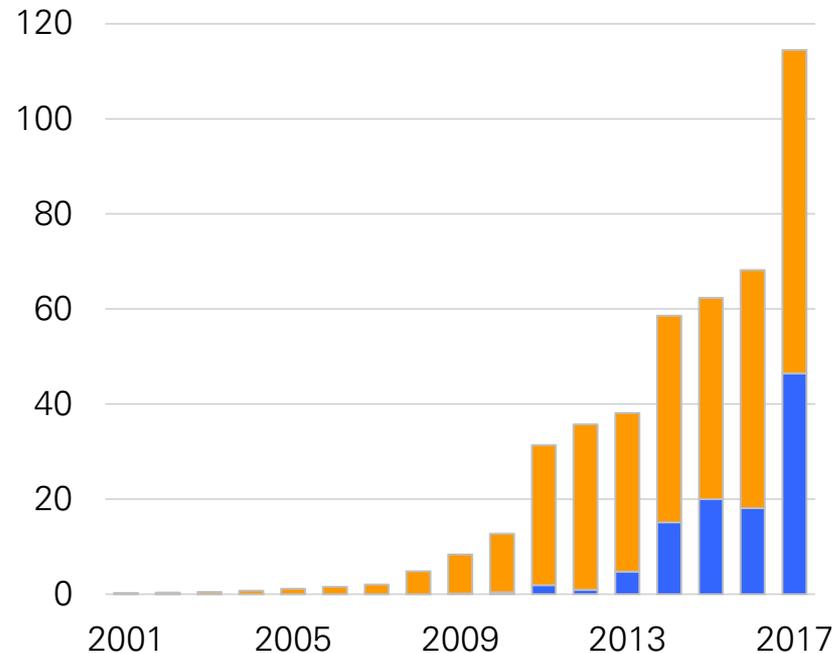
Capacity

Annual change, GW

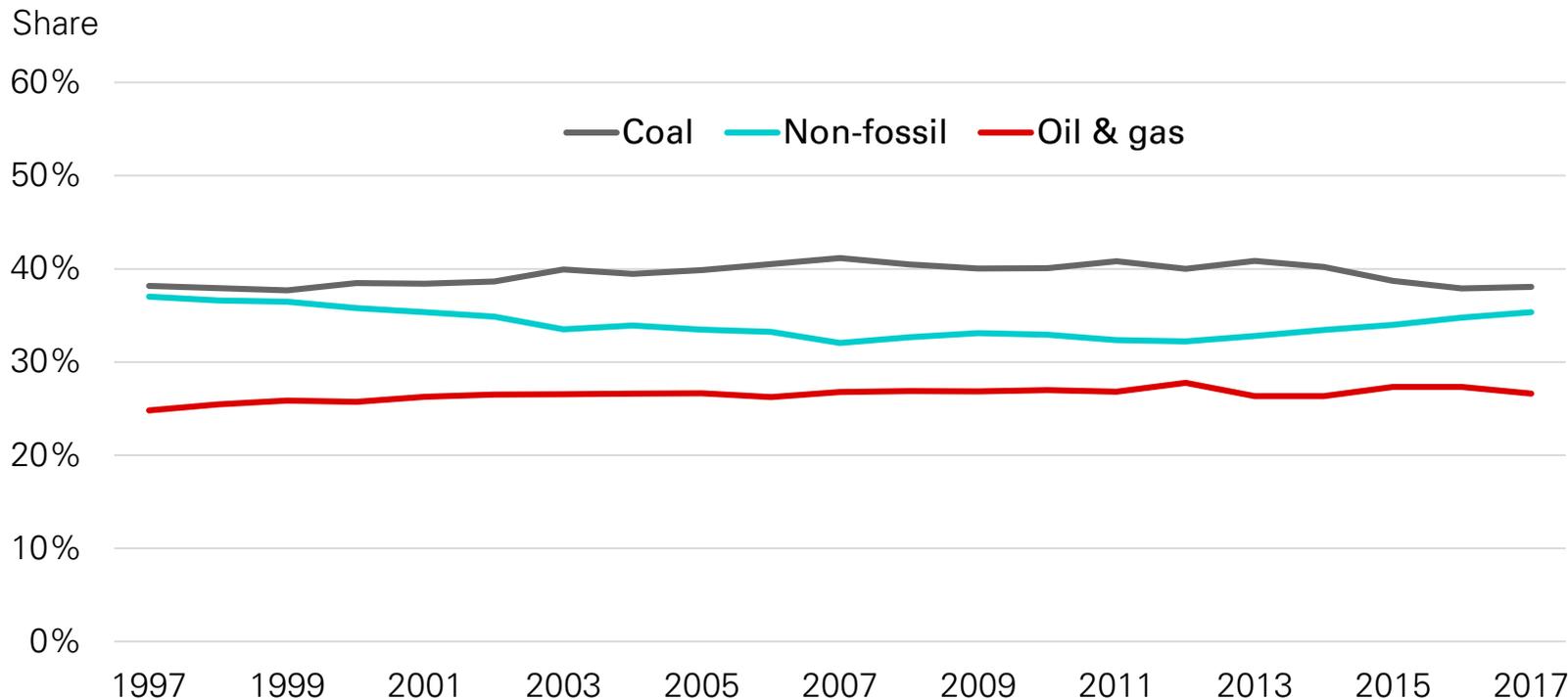


Generation

Annual change, TWh



Fuel shares in power generation

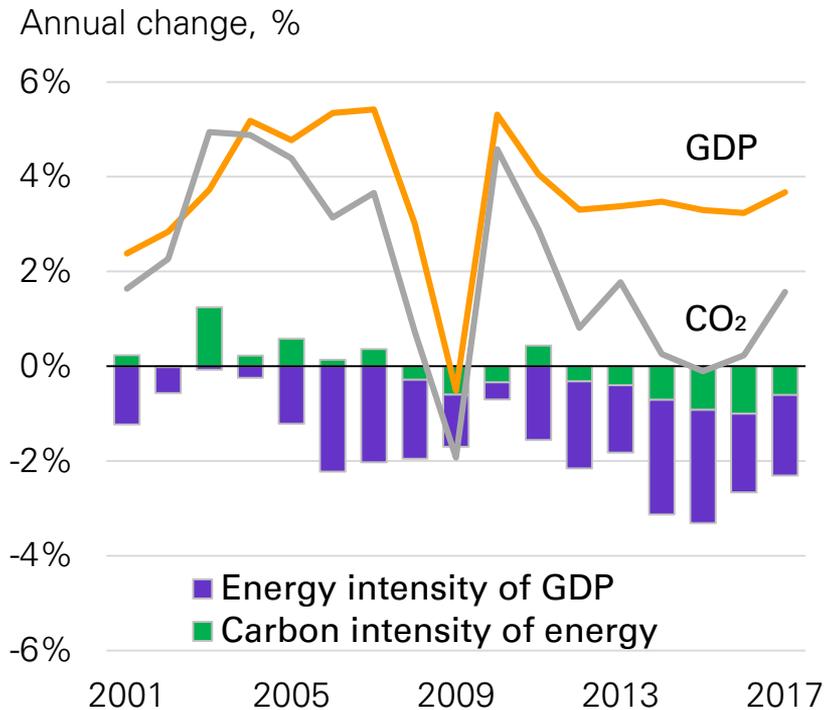




Carbon emissions

Growth in carbon emissions

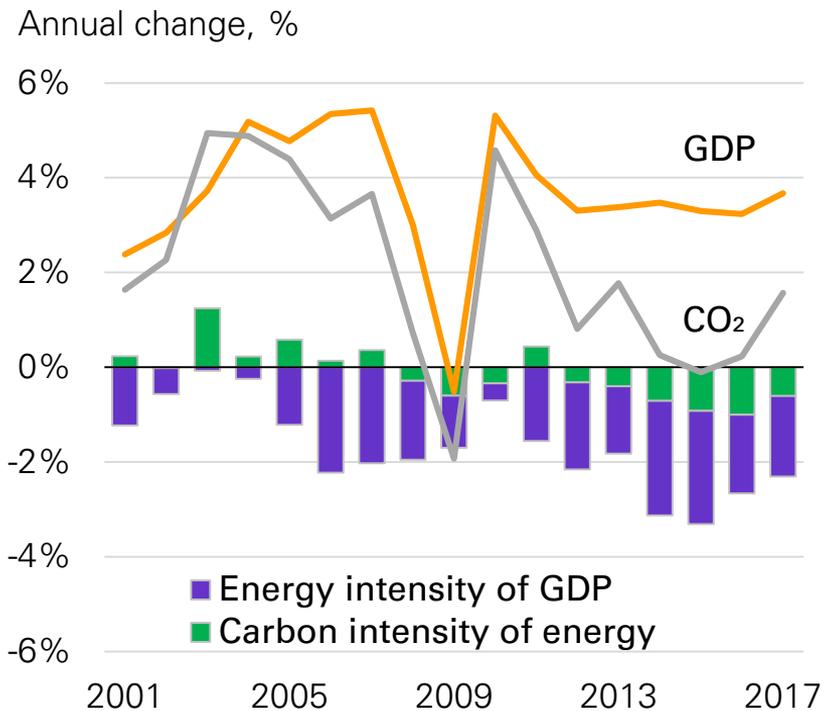
GDP and carbon emissions



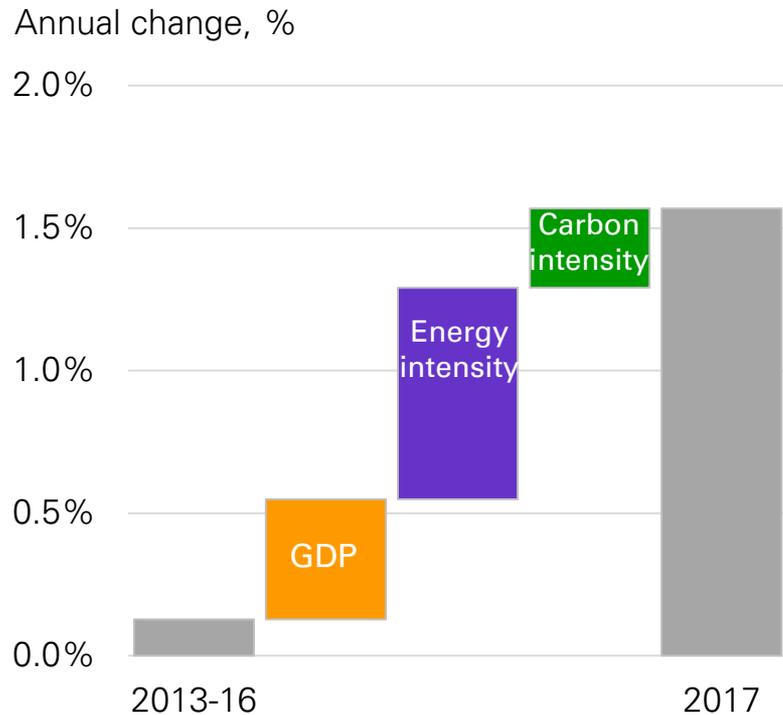
Note: change in the carbon intensity of GDP is the sum of "energy intensity of GDP" and "carbon intensity of energy"

Growth in carbon emissions

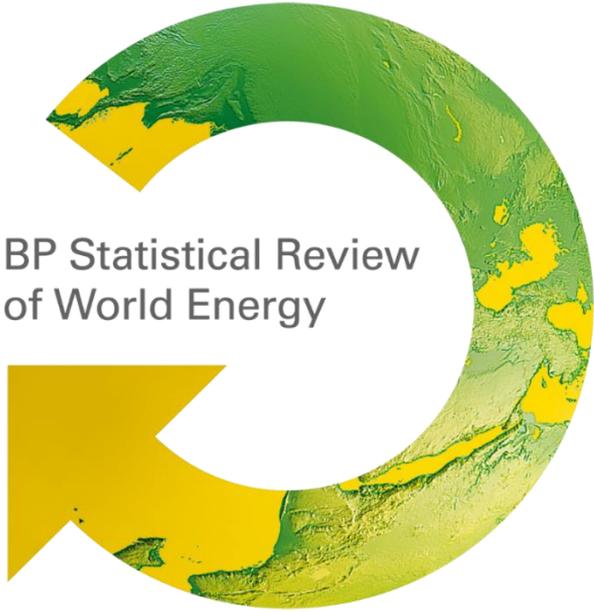
GDP and carbon emissions



2017 vs 2013-16



Note: change in the carbon intensity of GDP is the sum of "energy intensity of GDP" and "carbon intensity of energy"

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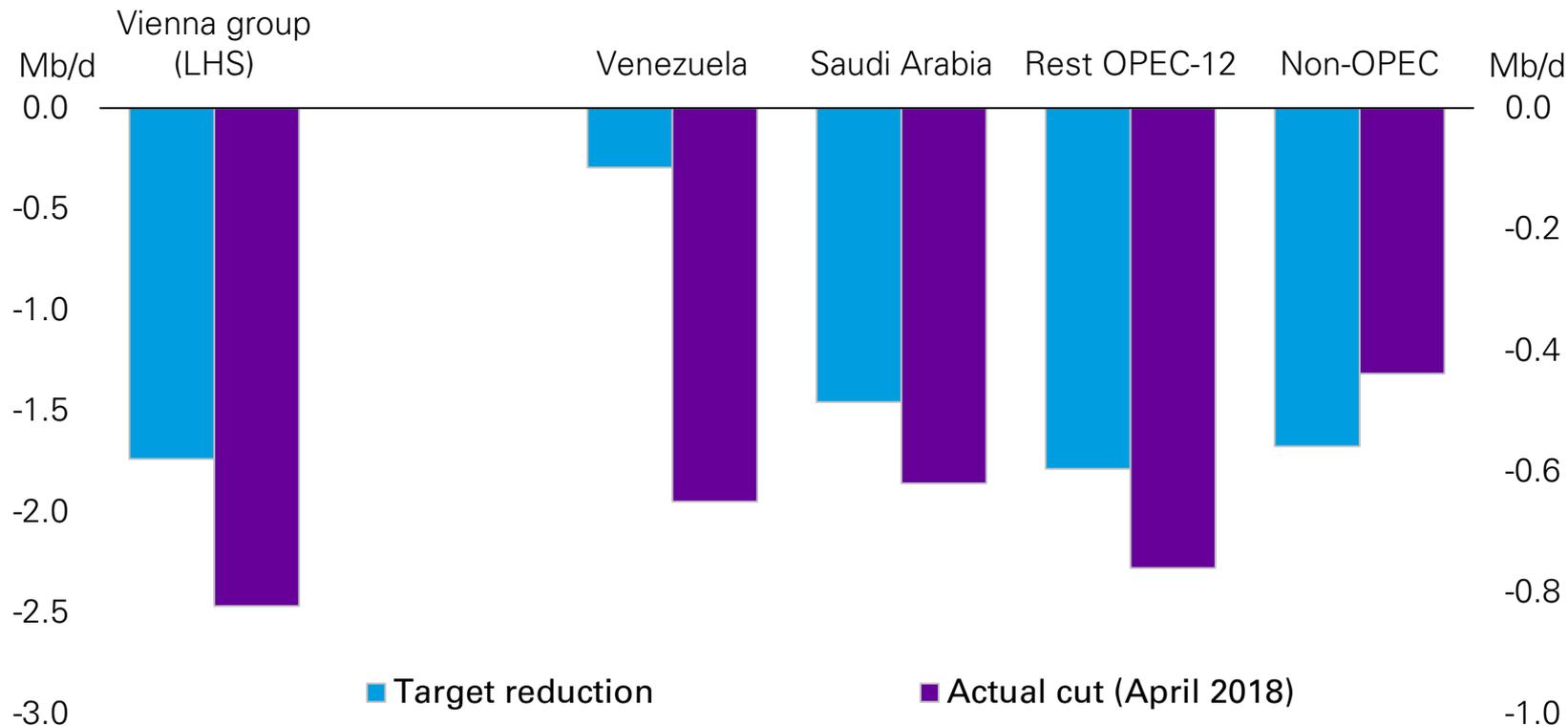
Oil supply



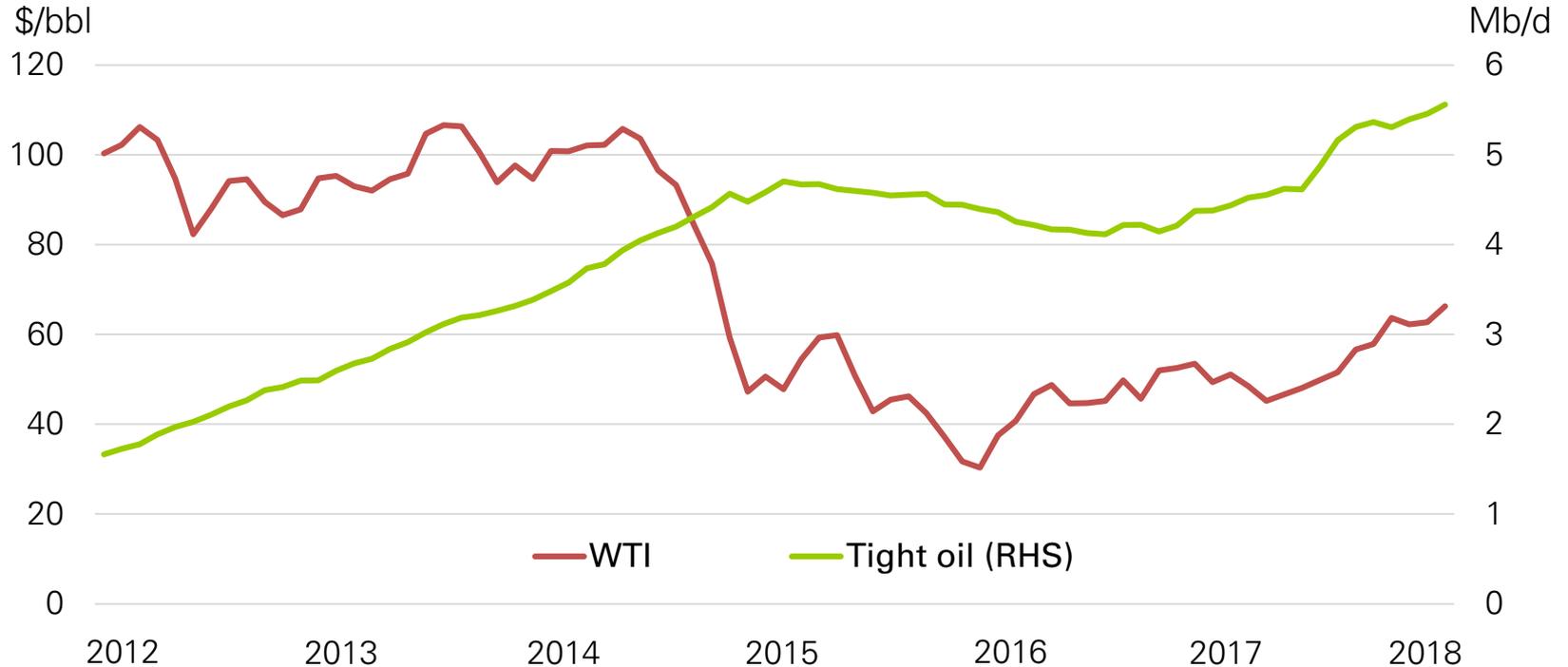
Production cuts



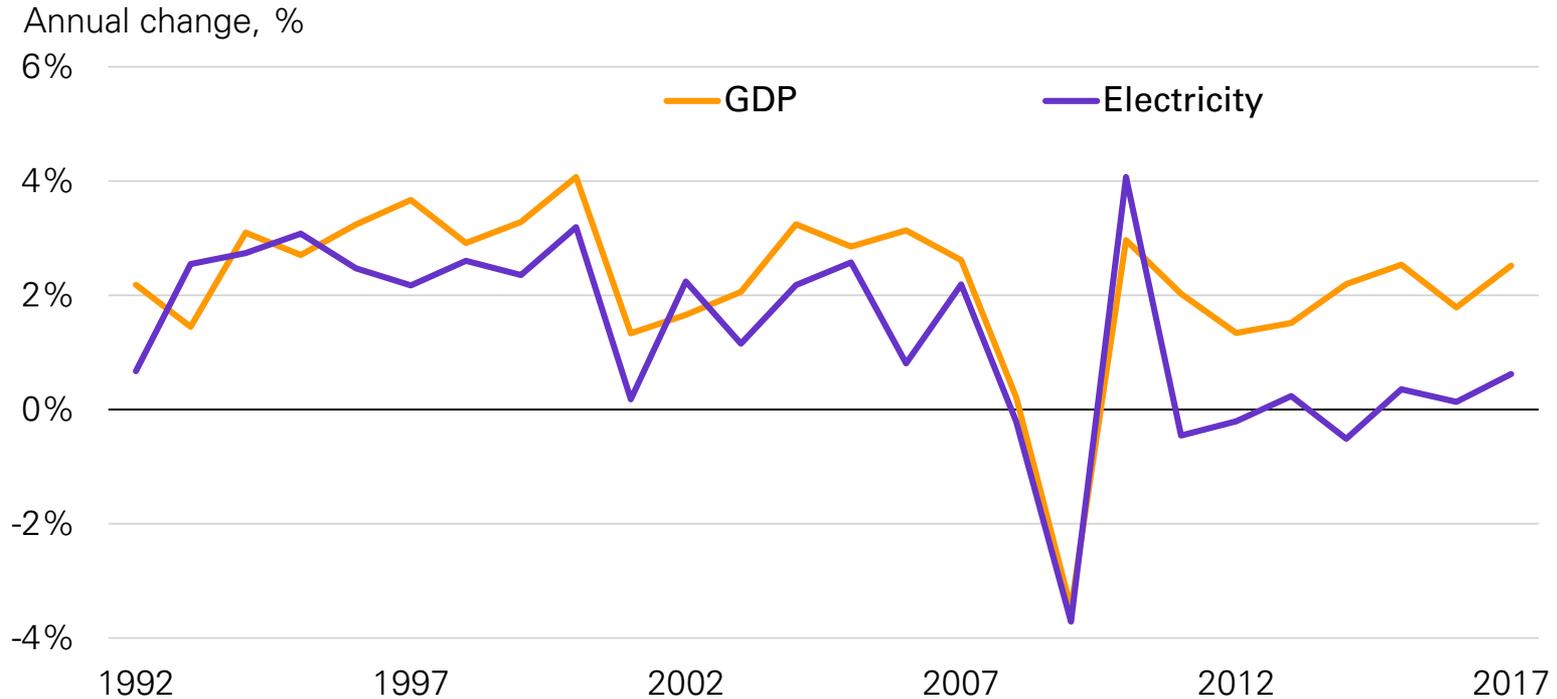
Vienna group production cut



US tight oil and oil prices



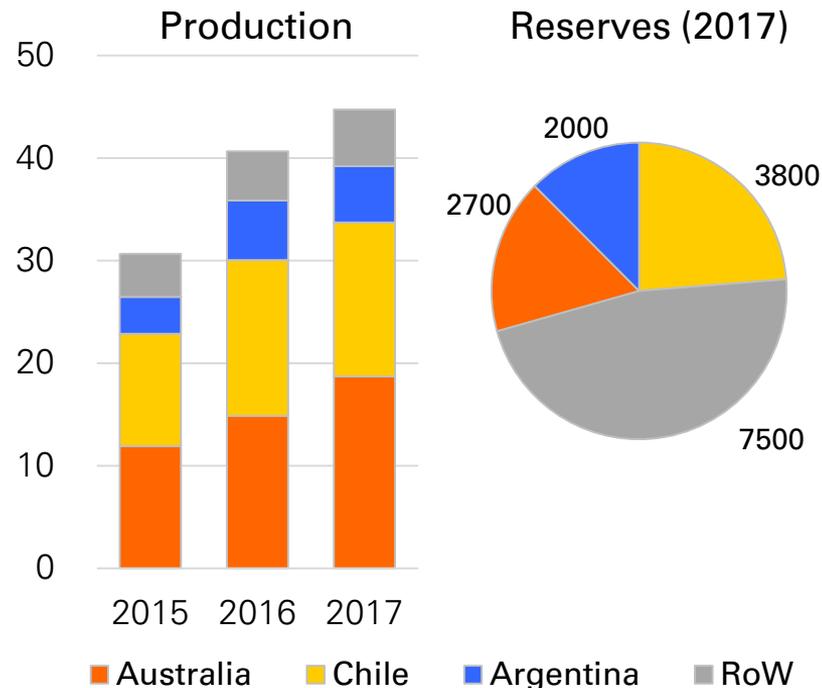
OECD GDP and electricity consumption



Lithium and cobalt: production and reserves

Lithium

Thousand tonnes



Cobalt

Thousand tonnes

